

REPORTS, RETURNS AND STATISTICS
OF THE
INLAND REVENUES

OF THE
DOMINION OF CANADA

FOR THE YEAR ENDED MARCH 31

1909

PART II

INSPECTION OF WEIGHTS AND MEASURES
GAS AND ELECTRICITY

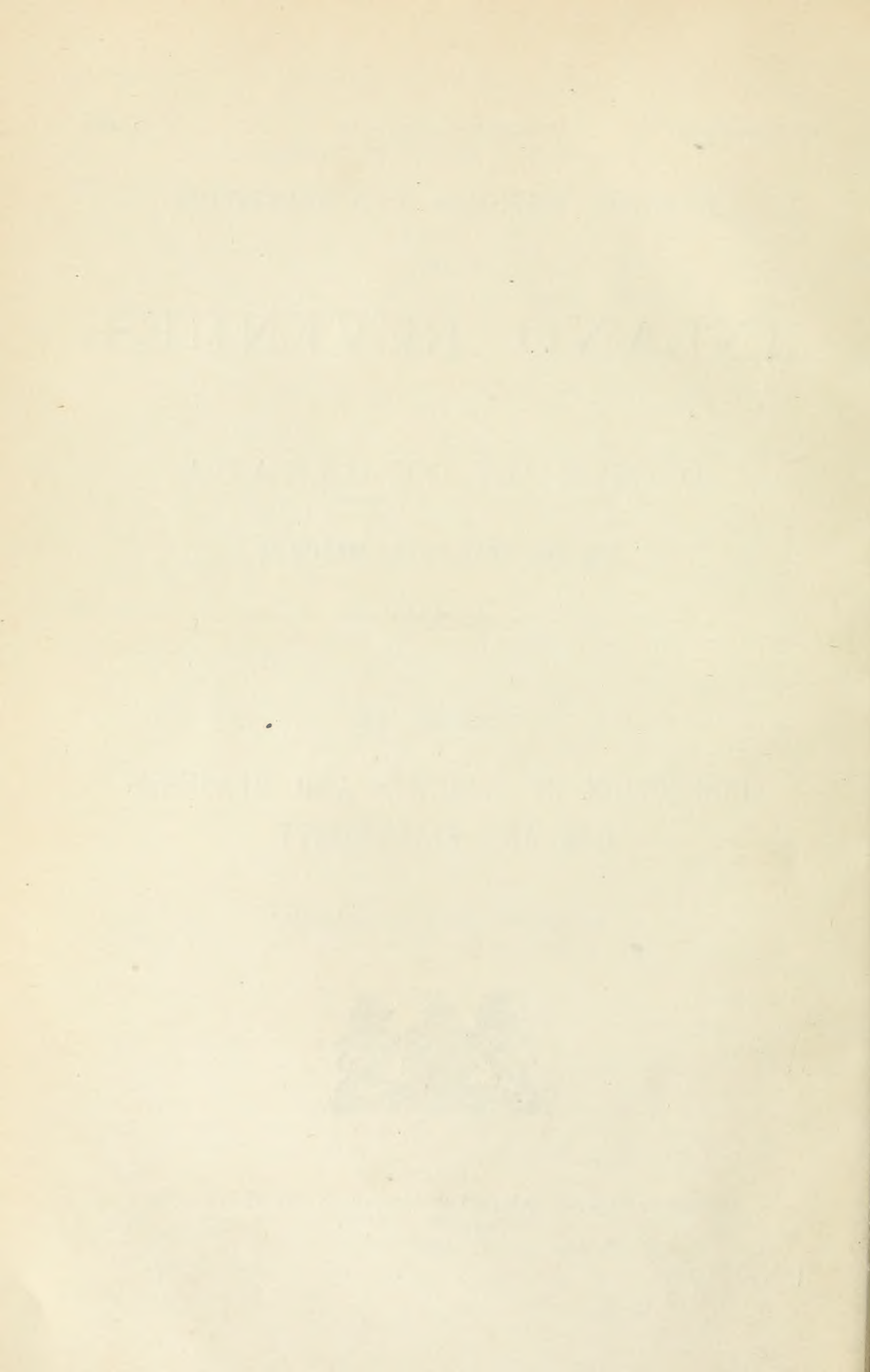
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OTTAWA

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1909



REPORT
OF THE
DEPUTY MINISTER OF INLAND REVENUE
ON THE
INSPECTION OF WEIGHTS AND MEASURES, GAS AND ELECTRICITY

To the Honourable
The Minister of Inland Revenue.

SIR,—I have the honour to submit herewith my annual report on the inspection of weights and measures, gas and electricity, with the usual statements in connection therewith, for the Fiscal Year ended March 31, 1909.

1. The total revenue collected during the year for the inspection of weights and measures, was \$80,287.05, as against \$83,021.32 collected during the twelve months ended March 31, 1908.

2. The total expenditure was \$104,255.67 as against \$101,492.24 expended during the year ended March 31, 1908.

3. Appendix 'A' gives a summary statement of the receipts and expenditures of each inspection division.

4. In Appendices 'B,' 'C' and 'D' will be found a detailed statement of weights, measures and weighing machines presented for verification, verified and rejected during the year. The number of all descriptions may be summarily stated as follows :

	Presented.	Verified.	Rejected.	Percentage of Rejections.
Weights, Dominion.....	69,906	69,607	299	0.43
Measures of capacity, Dominion.....	105,306	105,252	54	0.05
Lineal measures.....	7,953	7,818	135	1.73
Balances, equal arms.....	14,518	14,284	234	1.64
" steelyards.....	5,430	5,343	87	1.63
" platform scales.....	38,372	37,259	1,113	2.93
Miscellaneous weights.....	999	997	2	0.20
" measures of capacity.....	14,241	14,229	12	0.08
" balances.....	30,486	30,389	97	0.32

9-10 EDWARD VII., A. 1910

INSPECTION OF GAS.

5. The total revenue collected during the twelve months ended March 31, 1908, for the inspection of gas and gas meters, was \$44,032.50, as compared with \$48,604.21, collected during the year ended March 31, 1909.

6. The total expenses were \$31,014.35 as against \$35,515.36 expended during the year ended March 31, 1909.

7. Appendix 'E' gives a summary statement of the receipts and expenditures of each gas inspection district.

8. A statement of the illuminating power and purity of gas inspected during the year will be found in Appendix 'F.'

9. The illuminating power, where inspection has been made, has been as follows :—

Places.	Number of tests made.	Number of times below Standard.	Places.	Number of tests made.	Number of times below Standard.
Barrie.....	12	1	St. Catharines.....	12	1
Belleville.....	23		St. Thomas.....	13	
Berlin.....	12		Toronto.....	105	
Brockville.....	23		Windsor.....	18	5
Cobourg.....	12	4	Woodstock.....	12	
Cornwall.....	12		Montreal.....	104	
Deseronto.....	11		Quebec.....	12	
Guelph.....	12	5	Sherbrooke.....	12	2
Hamilton.....	26		St. Hyacinthe.....	12	
Ingersoll.....	13		Fredericton.....	10	
Kingston.....	23		Moncton.....	12	
Listowel.....	12	5	St. John, N.B.....	25	5
London.....	104		Halifax.....	12	
Napanee.....	6		Yarmouth.....	12	
Ottawa.....	104		Charlottetown.....	24	
Owen Sound.....	12	5	Winnipeg.....	101	5
Peterborough.....	24		Nanaimo.....	7	
Port Hope.....	12		New Westminster.....	9	
Sarnia.....	12		Vancouver.....	58	
Stratford.....	11		Victoria.....	6	

The revenue derived from the inspection of electricity was as follows :—

Fees for inspection of meters, &c.....	\$43,909 25
The expenses of inspection (annual).....	\$12,817 55
Expended on standard instruments, &c.....	5,691 80
	<hr/>
	18,509 35
Leaving a net revenue of.....	<hr/>
	\$25,399 90

SESSIONAL PAPER No. 13

Since the year 1896-97 the two services of gas and electricity inspection, which are conducted largely by the same staff of officers have reached that point at which they have ceased to be a burden upon the general taxpayer, as shown below:—

YEARS.	GAS AND ELECTRIC LIGHT.	
	Revenue.	Expenditure.
	\$ cts.	\$ cts.
*1899-1900.....	35,523 50	26,424 48
*1900-01.....	37,536 57	28,247 20
1901-02.....	43,663 05	33,328 48
1902-03.....	49,054 55	36,006 47
1903-04.....	50,218 75	33,426 15
1904-05.....	62,561 37	34,774 02
1905-06.....	76,539 00	38,917 48
1906-07 (nine months).....	57,868 18	30,793 84
1907-08.....	86,552 20	48,831 75
1908-09.....	92,450 21	54,018 71

* Exclusive of cost of standard instruments.

On July 1, 1909, there will be brought into effect new schedules of fees for the inspection of meters, for gas and electricity, which will tend to decrease the revenue from these sources. If found practicable future reductions may be made which will probably result in more nearly equalizing the revenue and expenditure in connection with these services.

The kindred service of weights and measures inspection, it will be observed, earns about 77 per cent of its actual cost, the expenditure as already stated having been \$104,255.67 against a revenue of \$80,218.80.

The International Commission on Electric Units and Standards met in London, England, in the month of October last and the International Congress of Applied Electricity met in Marseilles during the same month.

Mr. Ormand Higman, Chief Electrical Engineer, as Canadian representative, attended both meetings and a copy of his report, together with the report of the International Conference, is appended hereto.

The Department has, in the last few years, sent out, for use in educational institutions, over seven hundred sample sets of metric weights and measures. The supply is now exhausted and no additional sets have yet been ordered.

I have the honour to be, sir,
Your obedient servant,

W. J. GERALD,
Deputy Minister.

INLAND REVENUE DEPARTMENT,
OTTAWA, June 18, 1909.

INTERNATIONAL CONFERENCE ON ELECTRICAL UNITS AND
STANDARDS, 1908.

W. J. GERALD, Esq.,
Deputy Minister, Inland Revenue,

SIR,—In submitting my report of the International Conference on Electrical Units and Standards, I beg to state that previous to 1904 it had been admitted, for some time, that the realizations of the fundamental electrical units in the various countries were not identical. The difference was especially noticeable in the case of the volt which has been legalized, in some countries in terms of the ampere and ohm in other countries as the E.M.F. of a standard cell. The difference between the two values of the volt was about 8 parts in 10,000. In the case of the ampere and the ohm the differences though smaller were, in general, quite appreciable.

This subject was very fully considered at the International Electrical Congress held in St. Louis in connection with the Louisiana Purchase Exposition in 1904, and the Chamber of Delegates appointed by the various governments represented at this Conference adopted the following report at its third meeting :—

‘It appears from papers laid before the International Electrical Congress and from the discussion that there are considerable discrepancies between the laws relating to electrical units, or their interpretations, in the various countries represented, which, in the opinion of the chamber, require consideration with a view to securing practical uniformity.

‘Other questions bearing on nomenclature and the determination of units and standards have also been raised on which in the opinion of the chamber it is desirable to have international agreement.

‘The Chamber of Delegates consider that these and similar questions could best be dealt with by an international commission representing the governments concerned. Such a commission might, in the first instance, be appointed by those countries in which legislation on electric units has been adopted, and consist of, say, two members from each country.

‘Provision should be made for securing the adhesion of other countries prepared to adopt the conclusions of the commission.

‘The Chamber of Delegates approves such a plan, and requests its members to bring this report before their respective governments.

‘It is hoped that if the recommendation of the Chamber of Delegates be adopted by the Governments represented, the commission may eventually become a permanent one.’

Further, at the fourth and final meeting of the Chamber of Delegates, the following resolution was adopted :—

‘That the delegates report the resolution of the Chamber as to electrical units to their respective Governments, and that they be invited to communicate with S. W. Stratton (Bureau of Standards, Washington, D. C.), and Dr. R. T. Glazebrook (National Physical Laboratory, Bushy House, Teddington, Middlesex, England), as to the results of their report, or as to other questions arising out of the resolution.’

On their return from St. Louis the British delegates reported to the Foreign Office, and asked the government to arrange for an International Conference. In March, 1905, the matter was referred to the Board of Trade, who appointed a Committee to report on the matter. In the meantime certain informal correspondence between the heads of the various standardizing laboratories led up to the Reichsanstalt inviting, in June, 1905, the representatives of the laboratories to an informal conference at Charlottenburg.

The proceedings of this Conference were circulated to the delegates at the present Conference by Prof. Warburg. The decisions and resolutions are given in Appendix 1.

SESSIONAL PAPER No. 13

In the commencement of 1906 the Board of Trade Committee, after considering the action taken in Charlottenburg, reported that steps should be taken to convoke an International Conference on Electrical Units and Standards. This Committee recommended that the Conference should be held in London during October, 1906.

In April, 1906, the Foreign Office invited various countries to send representatives to the proposed Conference.

As a result of a representation received from the French government in July, 1906, to the effect that a French Conference was engaged on the question of Electrical Units the International Conference was postponed until October, 1907, as it was thought that the decision arrived at by the French Conference might be of material assistance.

In 1907, representations were received from Prof. Mascart and Dr. Warburg suggesting that further delay was desirable. The meeting of the Conference was therefore again postponed.

In June of last year the Foreign Office issued an invitation to all the Foreign governments to take part in an International Conference to be held in October in London and at the same time circulated a memorandum as to the proposals to be laid before the Conference which reads as follows:—

Memorandum as to the proposals to be laid before the Conference on Electrical Units and Standards to be held in London in October, 1908.

The general object of the International Conference on Electrical Units and Standards which is to meet on the invitation of His Majesty's government in London in October, 1908, is to consider and advise as to the steps which should be taken to bring about the agreement in the definition of Electrical Units which form the basis of legislation in different countries, and in the methods of constructing and employing the electrical standards necessary to give effect to these definitions.

It is hoped that the delegates to the Conference may find themselves able to embody their conclusions in draft articles which might be commended to the several Governments represented as a basis for uniform legislation and administration in relation to electrical units and standards.

The fundamental units of electrical measurement are the ohm, the ampere, and the volt. Of these, two are primary units, being independent, and the other secondary or derived. It is generally agreed that the ohm should be accepted as one of the primary units. There is some difference of opinion as to whether the ampere or volt should be the second. This point will be one for the Conference to consider.

Again, the ohm is realized by means of the resistance of a column of mercury of definite dimensions, the ampere by means of the electrolytic deposition of silver and the volt by aid of a standard cell.

If this method of realizing the units be accepted by the Conference, specifications for the ohm and the ampere will call for consideration, while the standard cell must be selected and the method of setting it up prescribed.

In view of the scientific questions raised in connection with each of these matters, including also the choice of the two primary units, it will be suggested at an early meeting of the Conference, should such a course appear to be desirable, that the Conference should appoint a small Technical Committee of experts to discuss the question and report thereon, to the Conference.

The Conference will also be asked to consider the best methods of securing uniformity of administration in the future, and for arriving at a decision on any questions left undecided at the close of the Conference.

It is desirable to have some definite questions before the Conference, and with this object the following propositions embodying conclusions arrived at by the representatives of the various National Standardizing Laboratories which met at the Reichsanstalt in 1906, and which are also generally in accordance with the decision of the Chicago Congress held in 1893, will be brought forward as a basis for discussion.

- (1) That the ohm shall be the first primary unit.

- (2) That the ampere shall be the second primary unit.
- (3) That in consequence the volt shall be treated as a secondary or derived unit.
- (4) That the international ohm be defined as the resistance at the temperature of melting ice of a column of mercury of uniform cross section terminated by planes at right angles to its length 106·3 centimetres in length and 14·4521 grammes in mass.
- (5) That the international ampere be defined as the unvarying Electrical Current which, when passed through a solution of nitrate of silver in water, deposits silver at the rate of 0·001118 gramme per second.
- (6) That the international volt be defined as that electro-motive force which when applied steadily between the ends of a conductor of resistance of 1 international ohm produces a current of 1 international ampere.
- (7) That the Weston Cadmium Cell be adopted as a convenient standard of electro-motive force, having at a temperature of 17°C an E.M.F. of ——— international volts, but that it is undesirable that the number representing the E.M.F. of this Cell should be the subject of legislation in any country.
- (8) That specifications dealing with the methods of setting up mercury standards of resistance, of realizing the ampere by the deposition of silver and of preparing standard cells, be issued with the authority of the Conference, and that for this purpose a Technical Committee be appointed to prepare these specifications.
- (9) That the Conference consider and advise as to the best method of securing uniformity with regard to the fundamental electrical standards for the future.

In the Chicago resolutions of 1893 the Volt was declared to be 'the electro-motive force that, steadily applied to a conductor whose resistance is one ohm, will produce a current of one ampere and which is represented sufficiently well for practical use by $\frac{1000}{1434}$ of the electro-motive force between the poles or electrodes of the voltaic cell known as Clark's Cell, at a temperature of 15° centigrade when prepared in accordance with a certain specification'.

The volt in the accompanying report as adopted by the London Conference is in terms of the ohm and ampere and is specified as follows 'the international volt is the electrical pressure which, when steadily applied to a conductor whose resistance is one international ohm will produce a current of one international ampere.' It is further stated that the Weston Normal Cell may be conveniently employed as a standard of electric pressure for the measurement both of E.M.F. and of current, and when set up in accordance with the specification provisionally as having, at a temperature of 20°C. an electro-motive-force or 1·0184 volts. It will thus be seen that the Weston Normal Cell supersedes the Clark cell as a standard of electro-motive-force and this change will necessitate an amendment to the Act respecting the units of electrical measure.

The primary units—the ohm and the ampere remain unchanged. It was intended by the Conference to drop all definitions apart from the ohm, ampere and volt but in view of the strong representations made by the Canadian delegate as to the necessity for defining the commercial unit of supply the Conference reconsidered its determination and defined the watt. As electrical energy on this continent is bought and sold almost entirely in terms of the watt and kilowatt the necessity for an authoritative definition of this unit was perfectly obvious.

As now defined by the Conference the resolution reads: 'The international watt is the energy expended per second, by an unvarying electric current of one international ampere under an electric pressure of one international volt.'

It is recommended that the Electrical Units Act be amended at the next session of Parliament so as to embody the new definitions of the Conference.

I remain, sir,

Your obedient servant,

ORMOND HIGMAN,

Chief Electrical Engineer

SESSIONAL PAPER No. 13

INTERNATIONAL CONFERENCE ON ELECTRICAL UNITS AND STANDARDS, 1908.

REPORT.

The Conference on Electrical Units and Standards for which invitations were issued by the British government, was opened by the President of the Board of Trade, The Right Hon. Winston S. Churchill, M.P., on Monday, 12th October, 1908, at Burlington House, London, S. W.

Delegates were present from twenty-one countries, and also from the following British Dependencies, namely, Australia, Canada, India and the Crown Colonies.

It was decided by the Conference that a vote each should be allowed to Australia, Canada and India, but a vote was not claimed or allowed for the Crown Colonies.

The total number of delegates to the Conference was forty-six, and their names are set out in Schedule A to this report.

The officers of the Conference were :—

President—The Right Hon. Lord Rayleigh, O.M., President of the Royal Society.

Vice-Presidents—Professor S. A. Arrhenius, Dr. M. Egoroff, Dr. Viktor Edler von Lang, M. Lippmann, Dr. S. W. Stratton, Dr. E. Warburg.

Secretaries—Mr. M. J. Collins, Mr. W. Duddell, F.R.S., Mr. C. W. S. Crawley, Mr. F. Smith.

The Conference elected a Technical Committee to draft specifications and to consider any matter which might be referred to the Committee and to report to the Conference.

The Conference and its Technical Committee each held five sittings.

As a result of its deliberation the Conference adopted the resolutions and specifications attached to this report and set out in Schedule B, and requested the Delegates to lay them before their respective governments with a view to obtaining uniformity in the legislation with regard to Electrical Units and Standards.

The Conference recommend the use of the Weston Normal Cell as a convenient means of measuring both electromotive force and current when set up under the conditions specified in Schedule C.

In cases in which it is not desired to set up the Standards provided in the resolutions Schedule B, the Conference recommends the following as working methods for the realisation of the international ohm, the ampere and the volt.

1. For the international ohm—

The use of copies, constructed of suitable material and of suitable form and verified from time to time, of the international ohm, its multiples and submultiples.

2. For the international ampere—

(a) The measurement of current by the aid of a current balance standardized by comparison with a silver voltameter ; or

(b) The use of a Weston Normal Cell whose electromotive force has been determined in terms of the international ohm and international ampere, and of a resistance of known value in international ohms.

3. For the international volt—

(a) A comparison with the difference of electrical potential between the ends of a coil of resistance of known value in international ohms, when carrying a current of known value in international amperes ; or

(b) The use of a Weston Normal Cell whose electromotive force has been determined in terms of the international ohm and international ampere.

9-10 EDWARD VII., A. 1910

The duties of specifying more particularly the conditions under which these methods are to be applied has been assigned to the Permanent Commission, and pending its appointment, to the Scientific Committee to be nominated by the President (see Schedule D), who will issue a series of Notes as Appendix to this Report.

The Conference has considered the methods that should be recommended to the governments for securing uniform administration in relation to Electrical Units and Standards, and expresses the opinion that the best method of securing uniformity for the future would be by the establishment of an International Electrical Laboratory with the duties of keeping and maintaining International Electrical Standards. This Laboratory to be equipped entirely independently of any National Laboratory.

The Conference further recommends that action be taken in accordance with the scheme set out in Schedule D.

Signed at London on 21st October, 1908, by the Delegates of their respective Countries.

For the United States of America :

S. W. STRATTON,
HENRY S. CARHART,
EDWARD B. ROSA.

For Austria :

VICTOR VON LANG,
LUDWIG KUSMINSKY.

For Belgium :

P. CLEMENT.

For Brazil :

LEOPOLD J. WEISS.

For Chili :

VICTOR EASTMAN.

For Colombia :

JORGE ROA.

For Denmark and Sweden :

SVANTE ARRHENIUS.

For Ecuador :

C. NEVARES.

For France :

G. LIPPMANN,
J. RENE BENOIT,
T. DE NERVILLE.

For Germany :

E. WRBURG, A
W. JAEGER,
S. LINDECK.

For Great Britain :

RAYLEIGH,
J. GAVEY,
R. T. GLAZEBROOK,
W. A. J. O'MEARA,
A. P. TROTTER,
J. J. THOMSON.

For Guatemala :

FRANCISCO DE ARCE.

For Hungary :

HARSANYI DESIRE,
VATER JOISEF.

For Italy :

ANTONIO ROITI.

For Japan :

OSUKE ASANO,
SHIGERU KONDO.

For Mexico :

ALFONSO CASTELLO.

For Netherlands :

DR. H. HAGA.

For Paraguay :

MAX F. CROSKEY.

For Russia :

N. EGOROFF,
L. SWENTORZETZKY.

For Spain :

JOSE MA. DE MADARIAGA,
A. MONTENEGRO.

For Switzerland :

DR. H. F. WEBER,
P. CHAPPUIS,
JEAN LANDRY.

For Australia :

C. W. DARLEY,
THRELFALL.

For Canada :

ORMOND HIGMAN.

For Crown Colonies :

P. CARDEW.

For India :

M. G. SIMPSON.

In the presence of :—

M. J. COLLINS,
W. DUDDALL,
C. W. S. CRAWLEY,
F. E. SMITH.

Secretaries

SCHEDULE A.

LIST OF COUNTRIES AND DELEGATES.

America (United States).—Dr. S. W. Stratton, Director, Bureau of Standards, Washington.

Dr. Henry S. Carhart, Professor of Physics at the University of Michigan.

Dr. E. B. Rosa, Physicist, Bureau of Standards, Washington.

Austria.—Dr. Viktor Edler von Lang, President of the Commission of Weights and Measures, Vienna.

Dr. Ludwig Kusminsky, Inspector of above Commission.

Belgium.—Professor Eric Gérard, Director of the Montefiore Electro-Technical Institution, and President of the Consultative Commission on Electricity.

Monsieur Clément, Secretary of the Consultative Commission on Electricity.

Brazil.—Mr. L. Weiss, Chef de la Section Technique des Télégraphes, Brésil.

Chili.—Don Victor Eastman, First Secretary to the Legation of Chili, London.

Columbia.—Don Jorge Roa.

Denmark and Sweden.—Professor S. A. Arrhenius, Nobel Institute, Stockholm.

Ecuador.—Senor Don Celso Nevares, Consul General.

France.—Professor Lippmann, Member of the Institute and Professor at the Sorbonne.

M. R. Benoit, Directeur du Bureau International des Poids et Mesures.

M. de Nerville, Ingénieur en chef des Télégraphes.

Germany.—Professor Warburg, President of the Imperial Physico-Technical Institute.

Professor Jaeger, Member of the Imperial Physico-Technical Institute.

Professor Lindeck, Member of the Imperial Physico-Technical Institute.

Great Britain.—The Right Hon. Lord Rayleigh, President of the Royal Society.

Professor J. J. Thomson, F.R.S., Cambridge.

Sir John Gavey, C.B.

Dr. R. T. Glazebrook, F.R.S., Director of the National Physical Laboratory.

Major W. A. J. O'Meara, C.M.G., Engineer-in-Chief, General Post Office.

Mr. A. P. Trotter, Electrical Adviser to the Board of Trade.

Guatemala.—Dr. Francisco de Arce, Diplomatic Representative, London and Paris.

Hungary.—Joseph Vater, Directeur Technique des Postes et des Télégraphes, Budapest.

Dr. Desire Harsanyi, Director of the Hungarian Royal Commission for Weights and Measures.

Italy.—Professor Antonio Roiti, of Florence.

Japan.—Dr. Osuke Asano, Doctor of Engineering, Official Expert of the Department of Communications, Tokyo.

Mr. Shigeru Kondo, Official Expert of the Department of Communication, Tokyo.

Mexico.—Don Alfonso Castello.

Don José Maria Perez.

Netherlands.—Dr. Haga, Professor at the University of Groningen.

Paraguay.—M. Maximo Croskey.

Russia.—Dr. N. Egoroff, D.Sc., Director of the General Chamber of Weights and Measures.

Col. L. Swentorzetzký, Ingenieur Militaire, Prof. de l'Académie Militaire Nicolas des Ingénieurs, St. Petersburg.

Spain.—Don Jose Maria Madariaga, Professor of Electricity and Physics at the School of Mines, Madrid.

Don A. Montenegro, Ingenieur Professeur du laboratoire de l'Ecole de Mines, Madrid.

Switzerland.—Dr. Fr. Weber, Professor at the Swiss Polytechnic School at Zurich

9-10 EDWARD VII., A. 1910

Dr. Pierre Chappuis, Membre Honoraire du Bureau international des Poids et Mesures.

Dr. J. Landry, Professor of Industrial Electricity in the University, Lausanne.

British Colonies : Australia.—Mr. Cecil W. Darley, I.S.O., Late Inspecting and Consulting Engineer, New South Wales Government.

Professor Therlfall, M.A., F.R.S.

Canada.—Mr. Ormond Higman, Chief Electrical Engineer, Electric Standards Laboratory, Ottawa.

Crown Colonies.—Major P. Cardew, Electrical Adviser.

India.—Mr. M. G. Simpson, Electrician of the Indian Telegraph Department.

Secretaries :

MR. M. J. COLLINS.

MR. W. DUDDALL, F.R.S.

MR. C. W. S. CRAWLEY.

MR. F. E. SMITH.

SCHEDULE B.

RESOLUTIONS.

The Conference agrees that as heretofore the magnitudes of the fundamental electric units shall be determined on the electro-magnetic system of measurement with reference to the centimetre as the unit of length, the gramme as the unit of mass and the second as the unit of time.

These fundamental units are (1) the ohm, the unit of electric resistance which has the value of 1,000,000,000 in terms of the centimetre and second ; (2) the ampere, the unit of electric current which has the value of one-tenth (0.1) in terms of the centimetre, gramme, and second ; (3) the volt, the unit of electromotive force which has the value 100,000,000 in terms of the centimetre, the gramme, and the second ; (4) the watt, the unit of power which has the value 10,000,000 in terms of the centimetre, the gramme, and the second.

II. As a system of units representing the above and sufficiently near to them to be adopted for the purpose of electrical measurements and as a basis for legislation, the Conference recommends the adoption of the international ohm, the international ampere, and the international volt defined according to the following definitions.

III. The ohm is the first primary unit.

IV. The international ohm is defined as the resistance of a specified column of mercury.

V. The international ohm is the resistance offered to an unvarying electric current by a column of mercury at the temperature of melting ice, 14.4521 grammes in mass, of a constant cross sectional area and of a length of 106.300 centimetres.

To determine the resistance of a column of mercury in terms of the international ohm, the procedure to be followed shall be that set out in Specification I. attached to these resolutions.

VI. The ampere is the second primary unit.

VII. The international ampere is the unvarying electric current which, when passed through a solution of nitrate of silver in water, in accordance with the Specification II attached to these resolutions, deposits silver at the rate of 0.00111800 of a gramme per second.

VIII. The international volt is the electrical pressure which, when steadily applied to a conductor whose resistance is one international ohm, will produce a current of one international ampere.

IX. The international watt is the energy expended per second by an unvarying electric current of one international ampere under an electric pressure of one international volt.

SESSIONAL PAPER No. 13

SPECIFICATION I.

Specification relating to Mercury Standards of resistance.

The glass tubes used for mercury standards of resistance must be made of a glass such that the dimensions may remain as constant as possible. The tubes must be well annealed and straight. The bore must be as nearly as possible uniform and circular, and the area of cross section of the bore must be approximately one square millimetre. The mercury must have a resistance of approximately one ohm.

Each of the tubes must be accurately calibrated. The correction to be applied to allow for the area of the cross-section of the bore not being exactly the same at all parts of the tube must not exceed 5 parts in 10,000.

The mercury filling the tube must be considered as bounded by plane surfaces placed in contact with the ends of the tube.

The length of the axis of the tube, the mass of mercury the tube contains, and the electrical resistance of the mercury are to be determined at a temperature as near to 0°C. as possible. The measurements are to be corrected to 0°C.

For the purpose of the electrical measurements, end vessels carrying connections for the current and potential terminals are to be fitted on to the tube. These end vessels are to be spherical in shape (of a diameter of approximately four centimetres) and should have cylindrical pieces attached to make connections with the tubes. The outside edge of each end of the tube is to be coincident with the inner surface of the corresponding spherical end vessel. The leads which make contact with the mercury are to be of thin platinum wire fused into glass. The point of entry of the current lead and the end of the tube are to be at opposite ends of a diameter of the bulb, the potential lead is to be midway between these two points. All the leads must be so thin that no error in the resistance is introduced through conduction of heat to the mercury. The filling of the tube with mercury for the purpose of the resistance measurements must be carried out under the same conditions as the filling for the determination of the mass.

The resistance which has to be added to the resistance of the tube to allow for the effect of the end vessels is to be calculated by the formula.

$$A = \frac{0.80}{1063\pi} \left(\frac{1}{r_1} + \frac{1}{r_2} \right) \text{ ohm.}$$

where r_1 and r_2 are the radii in millimetres of the end sections of the bore of the tube.

The mean of the calculated resistances of at least five tubes shall be taken to determine the value of the unit of resistance.

For the purpose of the comparison of resistances with a mercury tube the measurements shall be made with at least three separate fillings of the tube.

SPECIFICATION II.

Specification relating to the deposition of Silver.

The electrolyte shall consist of a solution of from 15 to 20 parts by weight of silver nitrate in 100 parts of distilled water. The solution must only be used once, and only for so long that no more than 30 per cent of the silver in the solution is deposited.

The anode shall be of silver, and the kathode of platinum. The current density at the anode shall not exceed $\frac{1}{2}$ ampere per square centimetre and at the kathode $\frac{1}{4}$ ampere per square centimetre.

Not less than 100 cubic centimetres of electrolyte shall be used in a voltameter.

Care must be taken that no particles which may become mechanically detached from the anode shall reach the kathode.

Before weighing, any traces of solution adhering to the kathode must be removed, and the kathode dried.

9-10 EDWARD VII.; A. 1910

SCHEDULE C.

WESTON NORMAL CELL.

The Weston Normal Cell may be conveniently employed as a standard of electric pressure for the measurement both of E.M.F. and of current, and when set up in accordance with the following Specification, may be taken, provisionally,* as having, at a temperature of 20°C., an E.M.F. of 1·0184 volts.

SPECIFICATION RELATING TO THE WESTON NORMAL CELL.

The Weston Normal Cell is a voltaic cell which has a saturated aqueous solution of cadmium sulphate ($\text{CdSO}_4 \frac{8}{3} \text{H}_2\text{O}$) as its electrolyte.

The electrolyte must be neutral to Congo Red.

The positive electrode of the cell is mercury.

The negative electrode of the cell is cadmium amalgam consisting of 12·5 parts by weight of cadmium in 100 parts of amalgam.

The depolarizer, which is placed in contact with the positive electrode, is a paste made by mixing mercurous sulphate with powdered crystals of cadmium sulphate and a saturated aqueous solution of cadmium sulphate.

The different methods of preparing the mercurous sulphate paste are described in the notes.† One of the methods there specified must be carried out.

For setting up the cell, the H form is the most suitable. The leads passing through the glass to the electrodes must be of platinum wire, which must not be allowed to come into contact with the electrolyte. The amalgam is placed in one limb, the mercury in the other.

The depolarizer is placed above the mercury and a layer of cadmium sulphate crystals is introduced into each limb. The entire cell is filled with a saturated solution of cadmium sulphate and then hermetically sealed.

The following formula is recommended for the E.M.F. of the cell in terms of the temperature between the limits 0°C and 40°C.

$$E_t = E_{20} - 0\cdot0000406 (t-20^\circ) - 0\cdot00000095 (t-20^\circ)^2 + 0\cdot00000001 (t-20^\circ)^3$$

SCHEDULE D.

1. The Conference recommends that the various governments interested establish a permanent international commission for electrical standards.

2. Pending the appointment of the permanent international commission the Conference recommends¹ that the president, Lord Rayleigh, nominate for appointment by the Conference a scientific committee of fifteen to advise as to the organization of the permanent commission, to formulate a plan for and to direct such work as may be necessary in connection with the maintenance of standards, fixing of values², inter-comparison of standards and to complete the work of the Conference³. Vacancies on the committee to be filled by co-optation.

* See duties of the Scientific Committee, Schedule D.

† Notes on methods pursued at various standardizing laboratories will be issued by the Scientific Committee or the Permanent Commission, as an Appendix to this Report.

¹ In accordance with the above, Lord Rayleigh has nominated the following committee, which has been approved by the Conference, viz.:—

Dr. Osuke Azano,	Prof. G. Lippman,
M. R. Benoit,	Prof. A. Roiti,
Dr. M. N. Egoroff,	Dr. E. R. Rosa.
Prof. Eric Gérard,	Dr. S. W. Stratton,
Dr. S. T. Glazebrook,	Mr. A. P. Trotter,
Dr. H. Haga,	Prof. E. Warburg,
D. L. Kusminsky,	Prof. Fr. Weber.
Prof. Lindeck,	

² This will include the reconsideration from time to time of the E. M. F. of the Weston Normal Cell.

³ With this object the committee are authorized to issue as an Appendix to the Report of the Conference notes detailing the methods which have been adopted in the standardizing laboratories of the various countries to realize the international ohm and the international ampere, and to set up the Weston Normal Cell.

SESSIONAL PAPER No. 13

3. The laboratories equipped with facilities for precise electrical measurements and investigations should be asked to co-operate with this committee and to carry out, if possible, such work as it may desire.

4. The committee should take the proper steps forthwith for establishing the permanent commission, and are empowered to arrange for the meeting of the next conference on electrical units and standards, and the time and place of such meeting should this action appear to them to be desirable.

5. The committee or the permanent international commission shall consider the question of enlarging the functions of the international commission on weights and measures with a view to determining if it is possible or desirable to combine future conferences on electrical units and standards with the international commission on weights and measures, in place of holding in the future conferences on electrical units and standards. At the same time it is the opinion of the conference that the permanent commission should be retained as a distinct body, which should meet at different places in succession.

ELECTRICAL STANDARDS LABORATORY,

INLAND REVENUE DEPARTMENT,

OTTAWA, August 19, 1909.

W. J. GERALD, Esq., I.S.O.,
Deputy Minister.

SIR, As the delegate of the Canadian Government, I attended the International Congress of Applied Electricity held in September, 1908, at Marseilles, France.

The Congress opened on Monday, the 14th of September under the presidency of M. Maurice Levy, Inspector General of Roads and Bridges, and Professor of the College of France.

The work of the Congress was carried on under nine divisions or sections as follows:—

First Section.—Comparison of French legislation on electricity with that of foreign countries and the consequences of new legislation on previous authorizations and concessions.

Second Section.—Construction and protection of aerial conductors and underground cables.

Third Section.—Technical and commercial exploitation. Comparison of the different methods of transporting electrical energy. The use of accumulators in electrical distributions. Supervision of the lines, security of the person and regulation.

Fourth Section.—Lighting and domestic applications. Processes of electric lighting. Specifications and photometry of electric lamps. Electricity as fuel.

Fifth Section.—Industrial applications of electricity for mining, traction and agriculture. Comparison of the different systems of traction. Electrification of steam railways. The social effect of the uses of electricity in the home.

Sixth Section.—Electro-chemistry and electro-metallurgy. The fixation of atmospheric nitrogen. The present state of electro-metallurgy. The electro-metallurgy of brass. The present state of electro-chemistry.

Seventh Section.—Telegraphy and telephony. Wireless telegraphy. Wireless telephony. The present state of submarine telephony. Application of currents of high frequency for the transmission of signals on industrial lines.

Eighth Section.—Teaching and measurements. Electro-technical schools. The education of the engineer and electrician. Instruments of measurement. Organization of an industrial laboratory.

Ninth Section.—Application of electricity to hygiene and medicine. Electrical processes for the sterilization of air and water. Electrical measuring instruments in radio therapy. The destructive action of electricity on the tissues. The employment of Crookes tubes.

The range covered, as here outlined, is extremely large and embraces practically every branch of electrical engineering.

9-10 EDWARD VII., A. 1910

The countries represented at the congress were :—Austria, Belgium, Canada, France, Holland, Italy, Monaco, Roumania, Russia, Spain, Sweden, Switzerland and the United States of America. There were 1,400 members present at the Congress.

The deliberations of the Congress have just been published in three large volumes, the first two of which are taken up with 'Rapports Préliminaires,' consisting practically of papers prepared by various authorities on which the discussions at the sectional meetings were based. The third volume contains the actual discussions which took place before the sections. It is impossible to give any adequate idea of the information contained in these volumes, but they will undoubtedly form an excellent work of reference in future as to the condition of the electrical industry in 1908.

I remain, sir, your obedient servant,

ORMOND HIGMAN,

Chief Electrical Engineer.

APPENDIX A

STATEMENT of Weights and Measures Expenditures and Revenues for the Fiscal Year ended March 31, 1909.

Inspection Divisions.	Inspectors and Assistants.	EXPENDITURES.						Revenues.
		Salaries.	Special Assistance.	Rent.	Travelling Expenses.	Sundries.	Total.	
		\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
Bellefleur	Johnson, Wm. . . Slattery, Thos. Johnston, C. W. . Gallagher, Thos. . Kylie, Richard . . Howson, G. H. . .	4,778 15		372 50	1,088 40	362 56	6,601 61	3,036 30
Hamilton	Frost, A. T. Marantette, A. Lachman, R. H. Wheatley, A. E. Robins, S. W. Clegg, Joseph....	6,549 84			1,595 75	89 45	8,234 94	10,325 35
Ottawa	Macdonald, J. A. . Winsor, John . . . Breen, J. Finchay, R. Hodgins, H. A. Church, G. C.	3,799 80	1,100 00		971 87	135 42	6,007 09	3,415 29
Toronto . . .	Kelly, D. McCorav, J. J. Wright, Robt. Milligan, R. J. ... Mundock Jas. Smith, J. C. Cruikshank, J. L. Lyons, Archibald	6,062 28			2,222 36	156 33	8,440 97	11,129 71
Windsor. . .	Hayward, W. J. Coughlin, D. . . . Hughes, R. A. . . . Thomas, J. S. Liddle, David. . . . Butler, F. H.	5,599 96			1,662 80	219 24	7,489 00	8,904 35
	Ontario..	26,790 03	1,100 00	372 50	7,548 18	962 90	36,773 61	36,811 00

9-10 EDWARD VII., A. 1910

APPENDIX A—*Continued.*STATEMENT of Weights and Measures Expenditures and Revenues for the Fiscal Year ended March 31, 1909—*Continued.*

Inspection Divisions.	Inspectors and Assistants.	EXPENDITURES.						Revenues.
		Salaries.	Special Assistance.	Rent.	Travelling Expenses.	Sundries.	Total.	
		\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
Montreal. . .	Chalus, J. O. Archambault, J. E. Daoust, J. A. Hébert, J. A. P. Boudet, E. Beaulac, J. H. Hall, H. C. Wilson, J. C. Galipeau, J. B. N. MacBeth, W.	7,138 10	600 00	1,000 00	1,916 89	201 98	10,856 97	13,889 08
Quebec.	Roy, Chs. E. LeBel, J. A. W. Guay, Alphonse Petit, J. B. Préfontaine, F. H. Knowles, Chs. Bourget, L. J. Bugeaud, J. F. Caldwell, A. B. Gauvin, B.	6,995 84	595 00	300 00	2,011 62	363 35	10,265 81	4,996 30
St. Hyacinthe.	Morin, J. P. Tomlinson, W. M. Thérien, J. F. Dessert, Victor.	3,449 88	374 94		1,276 07	138 81	5,239 70	3,509 05
Three Rivers.	Gravel, A. I. Bolduc, E.	1,699 92			108 30	67 43	1,875 65	288 10
	Quebec.	19,283 74	1,569 94	1,300 00	5,312 88	771 57	28,238 13	22,682 53
St. John, N.B.	Barry, Jas. Leblanc, F. X. Bernier, J. A. White, H. E.	3,206 85			849 97	60 29	4,117 11	3,324 26
Cape Breton. . .	Laurence, G. C.	950 00		50 00	428 32	4 90	1,433 22	907 40
Halifax.	Frame, A. Waugh, R. J. Sargent, F. H.	1,749 84	799 92	375 00	503 80	126 46	3,555 02	1,154 63
Pictou.	Dustan, W. M. Chisholm, J. J.	1,799 92			185 71	81 94	2,067 57	568 48
	Nova Scotia.	4,499 76	799 92	425 00	1,117 83	213 30	7,055 81	2,630 51
Charlottetown P.E.I.	Davy, E. Hughes, Henry.	1,720 06			247 59	95 65	2,063 30	616 60
Winnipeg, M..	Magness, R. Mager, Jos. G. Gilby, W. F. McKay, R. Spicer, Harry Thompson, J. C.	4,349 88			2,005 33	187 27	6,542 48	7,953 25

SESSIONAL PAPER No. 13

APPENDIX A—*Concluded*.STATEMENT of Weights and Measures Expenditures and Revenues for the Fiscal Year ended March 31, 1909—*Concluded*.

Inspection Divisions.	Inspectors and Assistants.	EXPENDITURES.						Revenues.
		Salaries.	Special Assistance.	Rent.	Travelling Expenses.	Sundries.	Total.	
		\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
Calgary, Alta.	Costello, J. W. } McDonald, A. W. }	1,849 96	5 00	3 00	1,313 49	111 96	3,283 41	2,592 15
Nelson	Parker, Thos.	1,100 00			1,078 60	62 15	2,240 75	1,229 55
Vancouver....	Marshall, R. Findley, H. Shaw, John. Harris, W. H. } Dutton, A. H. }	2,441 58	1,224 97	530 00	243 05	554 70	4,994 30	2,403 20
	British Columbia..	3,541 58	1,224 97	530 00	1,321 65	616 85	7,235 05	2,632 75
Dawson, Y.T.	Macdonald, J. F.	1,000 00			98 25	11 25	1,109 50	44 00

RECAPITULATION.

	EXPENDITURES.						Revenues.
	Salaries.	Special Assistance.	Rent.	Travelling Expenses.	Sundries.	Total.	
	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
Ontario..	26,790 00	1,100 00	372 50	7,548 18	962 90	36,773 61	36,811 00
Quebec.	19,283 74	1,569 94	1,300 00	5,312 88	771 57	28,238 13	22,682 53
New Brunswick	3,206 82			849 97	60 29	4,117 11	3,324 26
Nova Scotia.	4,499 70	799 92	425 00	1,117 83	213 30	7,055 81	2,630 51
Prince Edward Island	1,720 06			247 59	95 65	2,063 30	616 60
Manitoba.	4,349 88			2,005 33	187 27	6,542 48	7,953 25
Alberta..	1,849 96	5 00	3 00	1,313 49	111 96	3,283 41	2,592 15
British Columbia	3,541 58	1,224 97	530 00	1,321 65	616 85	7,235 05	3,632 75
Yukon	1,000 00			98 25	11 25	1,109 50	44 00
Chief inspector	1,125 00	199 45		503 95	60 69	1,889 09	
General contingencies.....					3,586 26	3,586 26	
Metric system..					33 77	33 77	
Printing					547 72	547 72	
Stationery..					471 62	471 62	
Lithographing					672 85	672 85	
Provisional allowance					425 66	425 66	
International Bureau of Weights and Measures.					210 30	210 30	
Grand totals.....	67,366 86	4,899 28	2,630 50	20,319 12	9,039 91	104,255 67	80,287 05

INLAND REVENUE DEPARTMENT,
OTTAWA, June 18, 1909.W. J. GERALD,
Deputy Minister.

9-10 EDWARD VII., A. 1910

APPENDIX

RETURN of Weights and Measures Inspected during the Fiscal Year ended March 31, each Division, for each Province,

INSPECTION DIVISIONS.	WEIGHTS.									MEASURES OF CAPACITY.					
	Dominion.			Troy and Decimal.			Mis-cellaneous.			Dominion.			Miscellaneous.		
	Brought for Verification.	Verified.	Rejected.	Brought for Verification.	Verified.	Rejected.	Brought for Verification.	Verified.	Rejected.	Brought for Verification.	Verified.	Rejected.	Brought for Verification.	Verified.	Rejected.
Belleville.....	2,063	2,063					5	5		2,680	2,680		53	53	
Hamilton.....	13,724	13,703	21				4	4		5,128	5,123	5	363	354	9
Ottawa.....	5,977	5,958	19							1,750	1,735	15	81	81	
Toronto.....	9,565	9,552	13							17,300	17,300		2,870	2,870	
Windsor.....	3,471	3,471		26	26					19,792	19,792		131	131	
Ontario.....	34,800	34,747	53	26	26		9	9		46,650	46,630	20	3,498	3,489	9
Montreal.....	11,497	11,432	65	138	138		77	77		30,499	30,496	3	7,379	7,379	
Quebec.....	7,860	7,687	173				863	861	2	8,090	8,066	24	138	138	
St. Hyacinthe.....	3,348	3,348								4,454	4,451	3	142	142	
Three Rivers.....	543	543								477	477		4	3	1
Quebec.....	23,248	23,010	238	138	138		940	938	2	43,520	43,490	30	7,663	7,662	1
St. John, N.B.....	3,096	3,095	1				4	4		6,293	6,292	1	2,279	2,279	
Cape Breton.....	487	482	5							363	360	3	48	47	1
Halifax.....	1,362	1,362					16	16		693	693		233	233	
Pictou.....	347	347					1	1		645	645		45	45	
Nova Scotia.....	2,196	2,191	5				17	17		1,701	1,698	3	326	325	1
Charlottetown, P.E.I.....	646	646		20	20					178	178		42	42	
Winnipeg, Man.....	3,053	3,051	2	40	40					6,007	6,007		419	418	1
Calgary, Alta.....	829	829					1	1		613	613		1	1	
Nelson.....	520	520								305	305		4	4	
Vancouver.....	1,511	1,511					19	19		39	39		9	9	
British Columbia.....	2,031	2,031					19	19		344	344		13	13	
Dawson, Yukon.....	7	7					9	9							
Grand totals.....	69,906	69,607	299	224	224		999	997	2	105,306	105,252	54	14,241	14,229	12

INLAND REVENUE DEPARTMENT,
OTTAWA, June 18, 1909.

SESSIONAL PAPER No. 13

B

1909, showing the Total Number brought for Verification, Verified and Rejected for and for the whole Dominion.

MEASURES OF LENGTH.			BALANCES, &c.											
			Equal Armed.			Steelyards.			Platform Scales, Weigh Bridges, &c.			Miscellaneous.		
			Brought for Verification.	Verified.	Rejected.	Brought for Verification.	Verified.	Rejected.	Brought for Verification.	Verified.	Rejected.	Brought for Verification.	Verified.	Rejected.
152	152		367	367		78	78		1,367	1,367		495	495	
893	804	89	3,262	3,141	121	2,589	2,558	31	6,253	5,785	468	3,289	3,282	7
425	425		1,963	1,034	29	46	45	1	2,356	2,286	70	652	623	29
1,336	1,336		1,969	1,933	36	503	477	26	3,193	3,077	116	7,613	7,586	27
622	622		690	682	8	203	200	3	4,230	4,163	67	2,467	2,466	1
3,428	3,339	89	7,351	7,157	194	3,419	3,358	61	17,399	16,678	721	14,516	14,452	64
2,319	2,319		2,546	2,527	19	1,041	1,039	2	5,876	5,758	118	7,116	7,095	21
995	950	45	1,273	1,261	12	279	264	15	2,391	2,334	57	419	413	6
410	410		785	782	3	186	184	2	2,286	2,219	67	148	148	
1	1		84	84		2	2		265	293	2	12	11	1
3,725	3,680	45	4,688	4,654	34	1,508	1,489	19	10,758	10,514	244	7,695	7,667	28
88	88		657	656	1	32	32		1,763	1,756	7	774	774	
121	120	1	136	134	2	67	67		310	307	3	118	118	
26	26		317	317		51	51		678	673	5	194	194	
45	45		80	80		9	9		212	208	4	62	62	....
192	191	1	533	531	2	127	127		1,200	1,188	12	374	374	
3	3		143	143		20	20		446	446		63	63	
318	318	....	543	540	3	105	98	7	3,579	3,454	125	5,377	5,372	5
85	85		159	159		33	33	....	1,324	1,320	4	283	283	
114	114		95	95		46	46	....	539	539		171	171	....
....	....		349	349		138	138	....	1,334	1,334		1,229	1,229	....
114	114		444	444		184	184		1,873	1,873		1,400	1,400	....
....	....		....	....		2	2		30	30		4	4	....
7,953	7,818	135	14,518	14,284	234	5,430	5,343	87	38,372	37,259	1,113	30,486	30,389	97

W. J. GERALD,
Deputy Minister.

APPENDIX

RETURN showing the number of Dominion Weights and Lineal Measures of each
Fiscal Year ended

INSPECTION DIVISIONS.	DOMINION													
	Avoir													
	60 lbs.	50 lbs.	30 lbs.	20 lbs.	10 lbs.	7 lbs.	5 lbs.	4 lbs.	3 lbs.	2 lbs.	1 lb.	8 ozs.	4 ozs.	2 ozs.
Belleville.....		1			16	6	58	128	172	407	455	238	283	126
Hamilton.....		2,194		2	4	4	243	113	2,314	3,517	3,209	491	424	500
Ottawa.....					1	8	81	80	212	378	506	759	734	723
Toronto.....		24			345	6	937	925	715	2,339	1,780	571	511	469
Windsor.....					10	2	75	129	342	749	711	334	321	299
Ontario.....		2,219		2	376	26	1,394	1,375	3,755	7,390	6,661	2,393	2,273	2,117
Montreal.....	40	239	2	3	81	43	548	618	842	2,236	2,104	1,230	1,115	1,005
Quebec.....	2	48	12	16	99	136	426	687	646	1,119	1,082	1,011	967	811
St. Hyacinthe.....				2	3	3	216	166	439	693	634	381	345	236
Three Rivers.....					4	1	51	16	83	93	89	67	61	49
Quebec.....	42	287	14	21	187	183	1,241	1,487	2,010	4,141	3,909	2,689	2,488	2,101
St. John, N.B.....	8	20	1	5	12	24	143	180	379	742	664	308	235	192
Cape Breton.....					8		46	39	124	131	86	47	5	1
Halifax.....		35			2	10	36	76	147	393	308	121	79	68
Pictou.....							13	13	46	95	84	23	18	18
Nova Scotia.....		35			10	10	95	128	317	619	478	191	102	87
Charlottetown, P.E.I.....							17	35	75	204	143	52	36	30
Winnipeg, Man.....		14	2	4	22	25	79	179	199	742	622	191	171	177
Calgary, Alta.....	60				2	5	5	36	27	193	160	63	61	61
Nelson.....					1	1	6	17	40	104	97	51	46	44
Vancouver.....		50			4	5	18	68	75	461	375	110	84	81
British Columbia.....		50			5	6	24	85	115	565	472	161	130	125
Dawson, Yukon.....							1			3	3			
Grand totals.....	110	2,625	17	32	614	279	2,999	3,505	6,877	14,599	13,112	6,048	5,496	4,890

SESSIONAL PAPER No. 13

C

Denomination presented for Verification in each Inspection Division during the March 31, 1909.

WEIGHTS.							Troy and Decimal Weights.	Miscellaneous Weights.	LINEAL MEASURES.								Miscellaneous Measures.		
denoms.									6 feet.	5 feet.	1 yard.	1/2 yard.	2 feet.	1 foot.	1/2 foot.	100 foot chains.		66 foot chains.	Tape or ribbon.	Total Number.
1 oz.	8 drs.	4 drs.	2 drs.	1 dr.	1/2 dr.	Total Number.													
99	46	22	5	1	...	2,063	...	5			152								
551	247	81	12	15		13,724	...	4			893								
689	759	1,046	7	1	2	5,977	...				425								
435	244	133	59	72	...	9,555	...				1,336								
261	153	71	10	3	1	3,471	26				622								
1,838	1,440	1,353	93	92	3	31,800	26	9			3,428								
725	356	136	73	98	3	11,497	138	77	...		2,319								
597	149	35	9	7	1	7,860	...	863	...		995								
165	49	11	5			3,348	...				410								
22	7		....			543	...				1								
1,509	561	182	87	105	4	23,248	138	940			3,725								
119	40	17	4	2	1	3,096		4			88								
....	....	....	....	....	....	487	....	....			121								
63	18	5	1			1,362	....	16	....		26								
17	11	5	2	2		347	....	1	....		45								....
80	29	10	3	2		2,196		17	....		192								
26	16	9	3	...		646	20		....		3								
173	166	125	75	91	2	3,053	49				318							....
60	50	43	3	....		829		1	....		85								
39	34	26	12	2	....	526	...	...	....		114								
66	51	35	26	2		1,511	...	19	....									
105	85	61	38	4		2,031	....	19	....		114								
....	....	....	....	....	....	7		9	....									
3,910	2,381	1,800	306	296	10	69,906	224	999	....		7,953								

W. J. GERALD,
Deputy Minister.

9-10 EDWARD VII., A. 1910

APPENDIX

RETURN showing the number of Dominion Weights and Lineal Measures of
Year ended March 31,

INSPECTION DIVISIONS.	DOMINION													
	Avoir													
	60 lbs.	50 lbs.	30 lbs.	20 lbs.	10 lbs.	7 lbs.	5 lbs.	4 lbs.	3 lbs.	2 lbs.	1 lb	8 ozs.	4 ozs.	2 ozs.
Belleville.....		1			16	6	58	128	172	407	455	238	283	126
Hamilton.....		2,194		2	4	4	243	109	2,314	3,509	3,207	487	422	500
Ottawa.....					1	7	78	76	206	373	506	759	734	723
Toronto.....		24			345	6	935	924	715	2,336	1,777	570	510	468
Windsor.....					10	2	75	129	342	749	711	334	321	299
Ontario.....		2,219		2	376	25	1,389	1,366	3,749	7,374	6,656	2,388	2,270	2,116
Montreal.....	40	239	2	3	81	41	545	613	834	2,226	2,092	1,218	1,108	1,000
Quebec.....	2	48	12	16	98	136	420	666	627	1,084	1,053	990	949	796
St. Hyacinthe.....				2	3	3	216	166	439	693	634	381	345	236
Three Rivers.....					4	1	51	16	83	93	89	67	61	49
Quebec.....	42	287	14	21	186	181	1,232	1,461	1,983	4,096	3,868	2,656	2,463	2,081
St. John, N.B.	8	20	1	5	12	24	143	180	378	742	664	308	235	192
Cape Breton.....					8		46	39	124	131	84	44	5	1
Halifax.....		35			2	10	36	76	147	393	308	121	79	68
Pictou.....							13	13	46	95	84	23	18	18
Nova Scotia.....		35			10	10	95	128	317	619	476	188	102	87
Charlottetown, P.E.I.							17	35	75	204	143	52	36	30
Winnipeg, Man.....		14	2	4	22	25	79	179	199	741	621	191	171	177
Calgary, Alta.....	60				2	5	5	36	27	193	160	63	61	61
Nelson.....					1	1	6	17	40	164	97	51	46	44
Vancouver.....		50			4	5	18	68	75	461	375	110	84	81
British Columbia.....		50			5	6	24	85	115	565	472	161	130	125
Dawson, Yukon.....							1			3	3			
Grand totals	110	2,625	17	32	613	276	2,985	3,470	6,843	14,537	13,063	6,007	5,468	4,869

INLAND REVENUE DEPARTMENT,
OTTAWA, June 18, 1909.

SESSIONAL PAPER No. 13

C—Continued.

each Denomination, Verified in each Inspection Division during the Fiscal 1908—Continued.

WEIGHTS.							Troy and Decimal Weights.	Miscellaneous Weights.	LINEAL MEASURES.										Miscellaneous Measures.	
dupers.									6 feet.	5 feet.	1 yard.	4 yard.	2 feet.	1 foot.	4 foot.	100 feet chains.	66 feet chains.	Tape of ribbon.		Total Number.
1 oz.	2 dr.	1 dr.	2 dr.	1 dr.	4 dr.	Total Number.														
99	46	22	5	1		2,063	.....	5			152								152	.....
354	246	81	12	15		13,703	.....	4			804								804	.....
689	750	1,046	7	1	2	5,968					425								425	.....
434	244	133	59	72		9,552					1,336								1,336	.....
261	153	71	10	3	1	3,471	26				622								622	.....
1,837	1,439	1,353	93	92	3	34,747	26	9			3,339								3,339	.....
724	356	136	73	98	3	11,432	138	77			2,319								2,319	.....
589	149	35	9	7	1	7,687		861			950								950	.....
165	49	11	5			3,348					410								410	.....
22	7					543					1								1	.....
1,500	561	182	87	105	4	23,010	138	938			3,680								3,680	.....
119	40	17	4	2	1	3,095		4			88								88	.....
63	18	5	1			482					120								120	.....
17	11	5	2	2		1,362		16			26								26	.....
						347		1			45								45	.....
80	29	10	3	2		2,191	....	17			191								191	.....
26	16	9	3			646	20				3								3	.....
173	160	125	75	91	2	3,051	40				318								318	.....
60	50	43	3			829		1			85								85	.....
39	34	26	12	2		520					114								114	.....
66	51	35	26	2		1,511		19												.....
105	85	61	38	4		2,031		19			114								114	.....
.....	.....	.....	.....	.....	.....	7	.....	9												.....
3,900	2,380	1,800	306	296	10	69,607	224	997			7,818								7,818	.....

W. J. GERALD,
Deputy Minister.

9-10 EDWARD VII., A. 1910

APPEDIX

RETURN showing the number of Dominion Weights and Lineal Measures of each
March 31,

INSPECTION DIVISIONS.	DOMINION													
	Avoir													
	60 lbs.	50 lbs.	30 lbs.	20 lbs.	10 lbs.	7 lbs.	5 lbs.	4 lbs.	3 lbs.	2 lbs.	1 lb.	8 ozs.	4 ozs.	2 ozs.
Belleville														
Hamilton ..								4		8	2	4	2	
Ottawa						1	3	4	6	5				
Toronto							2	1		3	3	1	1	1
Windsor.....														
Ontario.....						1	5	9	6	16	5	5	3	1
Montreal ..						2	3	5	8	10	12	12	7	5
Quebec ..					1		6	21	19	35	29	21	18	15
St. Hyacinthe ..														
Three Rivers.....														
Quebec					1	2	9	26	27	45	41	33	25	20
St. John, N.B.....									1					
Cape Breton.....											2	3		
Halifax														
Pictou.....														
Nova Scotia.....											2	3		
Charlottetown, P.E.I.														
Winnipeg, Man..										1	1			
Calgary, Alta...														
Nelson														
Vancouver.....														
British Columbia.														
Dawson, Yukon ..														
Grand totals.					1	3	14	35	34	62	49	41	28	21

INLAND REVENUE DEPARTMENT,
OTTAWA, June 18, 1909.

SESSIONAL PAPER No. 13

C—Concluded.

Denomination, Rejected in each Inspection Division during the Fiscal Year ended 1909—*Concluded.*

WEIGHTS.							Troy and Decimal Weights.	Miscellaneous Weights.	LINEAL MEASURES.										Miscellaneous Measures.
dupers.									6 feet.	5 feet.	1 yard.	1 yard.	2 feet.	1 foot.	1 foot.	100 feet chains.	66 feet chains.	Tape or Ribband.		Total Number.
1 oz.	8 drs.	4 drs.	2 drs.	1 dr.	1/2 dr.	Total Number.													
1	1					21				7									
1						19													
1						13													
1	1					33				89									
1						6		2		4									
1						173													
9						238		2		45									
						1													
						3				1									
						5				1									
						13													
			</																

W. J. GERALD,
Deputy Minister.

9-10 EDWARD VII., A. 1910

APPENDIX

RETURN showing the number of Dominion Measures of Capacity, Balances and Division, during the Fiscal Year

Inspection Divisions.	MEASURES OF CAPACITY.										Total Number.	Miscellaneous.
	DISTRIBUTION.											
	Bushel.	A Bushel.	Peck.	Gallon.	A Gallon.	Quart.	Pint.	A Pint.	Gill.	A Gill.		
Edmonton	12	12	37	455	423	727	54	56	....	1	2,088	53
Regina .....	.....	65	184	82	1,001	1,482	1,320	265	11	.....	5,128	363
Urgent	1	8	67	311	522	122	217	96	2	.....	1,750	81
Toronto	31	408	825	2,663	2,753	4,047	7,777	976	23	.....	17,300	2,870
Winnipeg	613	1,010	1,076	2,357	2,795	6,662	5,381	13	....	.....	19,792	131
Ontario	658	1,687	2,457	6,551	7,444	13,384	12,976	1,406	36	1	46,650	3,498
Montreal .....	.....	1,422	1,401	3,914	4,415	8,342	8,127	2,745	341	2	30,499	7,379
Quebec	1	251	307	1,476	1,876	1,827	1,508	609	114	.....	8,090	138
St. Hyacinthe .....	.....	115	167	723	1,071	1,194	709	383	92	.....	4,454	142
Three Rivers .....	.....	17	21	80	111	167	10	37	14	....	477	4
Quebec	1	1,475	2,046	6,216	7,473	11,538	10,434	3,774	561	2	43,520	7,663
St. John N.E. ....	.....	435	361	1,192	1,785	1,443	826	232	8	1	6,293	2,279
St. John N.W. ....	.....	2	.....	44	191	104	22	.....	.....	.....	363	48
Halifax	1	5	6	128	235	175	119	21	2	1	693	233
St. John's .....	.....	2	1	91	176	228	145	2	.....	.....	645	45
Nova Scotia	1	9	7	263	602	507	286	23	2	1	1,701	326
Charlottetown, P.E.I. ....	.....	.....	.....	6	22	126	24	.....	.....	.....	178	42
St. John's, N.S.	104	36	2	1,125	1,177	1,976	1,521	34	2	.....	6,007	419
St. John's, N.S.	6	2	.....	157	225	162	79	2	.....	.....	613	1
St. John's, N.S. ....	.....	.....	2	96	100	88	42	4	.....	.....	325	4
St. John's, N.S. ....	.....	.....	.....	.....	38	.....	1	.....	.....	.....	39	9
British Columbia .....	.....	.....	2	62	104	126	42	5	.....	.....	344	13
Indian Territory .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total	770	3,644	4,875	15,579	18,878	29,262	26,208	5,476	606	5	105,506	14,241

INLAND REVENUE DEPARTMENT.

OTTAWA, June 18, 1909.

APPENDIX

RETURN showing the number of Dominion Measures of Capacity, Balances and during the Fiscal Year

MEASURES OF CAPACITY.												
INSPECTION DIVISIONS.	Dominion.										Total Number.	Miscellaneous.
	Bushel.	$\frac{1}{2}$ Bushel.	Peck.	Gallon.	$\frac{1}{2}$ Gallon.	Quart.	Pint.	$\frac{1}{2}$ Pint.	Gill.	$\frac{1}{2}$ Gill.		
Belleville.....	12	196	307	455	423	727	503	56	....	1	2,680	53
Hamilton		65	184	819	999	1,480	1,300	265	11	....	5,123	354
Ottawa.....	1	6	62	306	519	526	217	96	2	....	1,735	81
Toronto.....	32	408	823	2,663	2,753	4,047	5,575	976	23	..	17,300	2,870
Windsor	613	1,010	1,076	2,302	2,795	6,602	5,381	13	....	....	19,792	131
Ontario.....	658	1,685	2,452	6,545	7,489	13,382	12,976	1,406	36	1	46,630	3,489
Montreal		1,062	1,550	3,914	4,414	8,341	8,127	2,745	341	2	30,496	7,379
Quebec.....	1	281	307	1,492	1,870	1,889	1,504	608	114	....	8,066	138
St. Hyacinthe.....		114	167	721	1,071	1,194	709	383	92	....	4,451	142
Three Rivers.....		17	21	80	111	107	90	37	14	....	477	3
Quebec.....	1	1,474	2,045	6,207	7,466	11,531	10,430	3,773	561	2	43,490	7,662
St. John, N. B.....		435	361	1,192	1,785	1,442	836	232	8	1	6,292	2,279
Cape Breton		2	....	44	191	102	21	....	....	....	360	47
Halifax	1	5	6	128	235	175	119	21	2	1	693	233
Pictou		2	1	91	176	228	145	2	....	....	645	45
Nova Scotia.....	1	9	7	263	602	505	285	23	2	1	1,698	325
Charlottetown, P.E.I....		....	....	6	22	126	24	....	....	....	178	42
Winnipeg, Man.....	104	36	2	1,125	1,177	1,976	1,551	34	2	....	6,007	418
Calgary, Alta	6	2	....	157	225	162	59	2	....	....	613	1
Nelson .....		....	2	69	100	88	42	4	....	....	305	4
Vancouver.....		....	....	....	....	38	....	1	....	....	39	9
British Columbia.....		....	2	69	100	126	42	5	....	....	344	13
Dawson, Yukon.....		....	....	....	....	....	....	....	....	....	....	....
Grand totals	770	3,641	4,869	15,564	18,866	29,250	26,203	5,475	609	5	105,252	14,229

SESSIONAL PAPER No. 13

D--Continued.

Weighing Machines of each Denomination, Verified in each Inspection Division, ended March 31, 1909—Continued.

BALANCES.														
With equal arms.				Steelyards with divided arms.				Weigh Bridges or Platform Scales.						
5 lbs. and under.	6 lbs. to 50 lbs.	51 lbs. to 100 lbs.	101 lbs. and upwards.	500 lbs. and under.	501 lbs. to 1,000 lbs.	1,001 lbs. to 2,000 lbs.	2,001 lbs. and upwards.	250 lbs. and under.	251 lbs. to 500 lbs.	501 lbs. to 2,000 lbs.	2,001 lbs. to 4,000 lbs.	4,001 lbs. to 6,000 lbs.	6,001 lbs. and upwards.	Miscellaneous.
147	220			74		3	1	318	85	395	159	71	339	495
1,416	1,725			2,529	27	2		3,078	118	2,027	236	68	258	3,282
861	172	1		21		24		673	114	1,317	36	43	103	623
71	1,221			470	15	5	7	1,116	476	985	311	97	418	7,586
324	358			185	11	4		573	73	2,493	241	79	704	2,466
3,460	3,696	1		3,259	53	38	8	5,758	540	7,217	983	358	1,822	14,452
869	1,657		1	1,004	23	3	9	2,227	995	1,893	148	150	345	7,095
245	953		63	263	1			965	739	517	32	24	57	413
227	493	59	3	182	2			817	446	745	30	63	118	148
12	72			2				83	41	58	6	6	9	11
1,353	3,175	59	67	1,451	26	3	9	4,092	2,221	3,213	216	243	529	7,667
178	477	1		31	1			766	310	505	46	26	109	774
58	76			44	22		1	151	24	51		40	41	118
94	221	1	1	51				366	67	150	16	16	58	194
30	50			9				88	38	16	8	17	21	62
182	347	1	1	104	22		1	605	129	237	24	73	120	374
31	112			20				127	63	212	8	17	19	63
198	338	4		96	2			1,045	25	895	243	604	642	5,372
100	59			30	2	1		386	35	281	45	221	352	283
49	46			24		22		220	18	208	14	9	70	171
171	177	1		88	20	29	1	604	53	544	59	13	61	1,229
220	223	1		112	20	51	1	824	71	752	73	22	131	1,400
						2		14	1	11	4			4
5,722	8,427	67	68	5,103	126	95	19	13,617	3,395	13,323	1,636	1,564	3,724	30,389

W. J. GERALD,
Deputy Minister,

9-10 EDWARD VII., A. 1910

APPENDIX

RETURN showing the number of Dominion Measures of Capacity, Balances and Weigh
Fiscal Year ended

INSPECTION DIVISIONS	MEASURES OF CAPACITY.										
	Dominion.										
	Bushel.	$\frac{1}{2}$ Bushel.	Peck.	Gallon.	$\frac{1}{2}$ Gallon.	Quart.	Pint.	$\frac{1}{2}$ Pint.	Gill.	$\frac{1}{2}$ Gill.	Total Number.
Belleville											
Hamilton				1	2	2					5
Ottawa		2	5	5	3						15
Toronto											
Windsor											
Ontario		2	5	6	5	2					20
Montreal			1		1	1					3
Quebec				7	6	6	4	1			24
St. Hyacinthe		1		2							3
Three Rivers											1
Quebec		1	1	9	7	7	4	1			30
St. John, N. B.						1					1
Cape Breton						2	1				3
Halifax											
Pictou											
Nova Scotia						2	1				3
Charlottetown, P.E.I.											
Winnipeg, Man.											1
Calgary, Alberta											
Nelson											
Vancouver											
British Columbia											
Dawson, Yukon											
Grand totals		3	6	15	12	12	5	1			54

SESSIONAL PAPER No. 13

D—*Conclude L.*

ing Machines of each Denomination, Rejected, in each Inspection Division, during the March 31, 1908.

BALANCES.

With equal arms.				Steely arms with divided arms.				Weight Bridges or Platform Scales.							
5 lbs. and under.	6 lbs. to 50 lbs.	51 lbs. to 100 lbs.	101 lbs. and upwards.	500 lbs. and under.	501 lbs. to 1,000 lbs.	1,001 lbs. to 2,000 lbs.	2,001 lbs. and upwards.	250 lbs. and under.	251 lbs. to 500 lbs.	501 lbs. to 2,000 lbs.	2,001 lbs. to 4,000 lbs.	4,001 lbs. to 6,000 lbs.	6,001 lbs. and upwards.	Miscellaneous.	
7	111			31				5	7	220	41	17	8	7	
20	9			1				27	9	16	3	8	7	2	
6	30			26				35	4	49	12	5	11	27	
3	5			3				11	2	29	3	1	21	1	
36	158			61				171	22	314	59	31	124	64	
6	13			2				23	19	41	7	11	17	21	
3	6	2	1	17				7	22	19	1		8	6	
	3			2				15	18	18	2	10	6		
								1		1				1	
9	22	2	1	19				44	59	79	10	21	31	25	
	1							4					3		
	2							2	1						
								1			1	1	2		
													4		
	2							2	2		1	1	6		
2	1			7				31		45	3	11	35	5	
												2	2		
47	184	2	1	87				252	83	438	73	66	201	97	

W. J. GERALD,
Deputy Minister.

APPENDIX E

STATEMENT of Gas Inspection Expenditures and Revenues for the Fiscal Year ended March 31, 1909.

Districts.	Inspectors and Assistants.	EXPENDITURES.						Revenues.
		Salaries.	Special Assistance.	Rent.	Travelling Expenses.	Sundries.	Totals.	
		\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
Barrie.....	Shanacy, M.....	100 00					100 00	119 25
Belleville.....	{ Johnson, Wm..... Stuart, W. E..... }	549 96		81 25			631 21	374 00
Berlin.....	Broadfoot, S.....	100 00			35 15	33 15	168 30	477 00
Brockville.....	{ Johnston, C. W. (actg) { Fraser, H..... }							270 00
Cobourg.....	Bickle, J. W.....	100 00			12 35	34 75	147 10	175 00
Cornwall.....	Mulhern, M. M.....	100 00				30 00	130 00	65 00
Guelph.....	Broadfoot, S.....	200 00				33 10	233 10	295 50
Hamilton.....	{ McPhie, D..... Dennis, W. A..... Murphy, F. C..... McPhie, W. H..... }	3,433 22		120 00	156 75	150 94	3,860 91	5,519 25
Kingston.....	{ Gallagher, Thos..... Fraser, H..... }	161 24			3 00		164 24	388 75
Listowel.....	Male, Thos.....	100 00		78 00		16 75	194 75	53 00
London.....	{ Nash, A. F..... Skelton, A. R..... }	2,049 96			348 45	126 68	2,525 09	4,751 50
Napanee.....	Johnson, Wm. (actg).....				24 15		24 15	54 75
Ottawa.....	{ Roche, H. G..... Bond, M. B..... Roche, W. J..... }	2,800 87	42 77	450 00		84 40	3,378 04	2,093 75
Owen Sound.....	Graham, W. J.....	200 00		125 00			325 00	159 25
Peterborough.....	Rork, Thos.....	150 00					150 00	441 50
Sarnia.....	Thrasher, W. A.....	95 23				4 35	99 58	679 00
Stratford.....	Rennie, Geo.....	200 00				13 50	213 50	132 75
Toronto.....	{ Johnstone, J. K..... Pape, Jas..... Renahan, M. J..... Stiver, J. L..... Hunter, W. M..... }	5,149 80	66 66		24 30	95 51	5,336 27	12,775 75
Woodstock.....	Orr, H. N.....	150 00			3 95	13 95	167 90	309 50
Ontario.....		15,640 28	109 43	854 25	608 10	637 08	17,849 14	29,134 50
Montreal..	{ Aubin, A..... O'Flaherty, M. J..... Aubin, Chs..... Mann, Wm..... }	4,299 84		240 00	42 75	159 35	4,741 94	12,404 71
Quebec.....	{ LeVasseur, N..... Béland, F. X. J. E..... }	1,400 00		150 00	2 50	180 50	1,733 00	1,158 25
Sherbrooke.....	{ Simpson, A. F..... Bowen, F. C..... }	249 96					249 96	93 25
St. Hyacinthe...	Benoit, L. V.....	100 00				17 00	117 00	65 50
Quebec.....		6,049 80		390 00	45 25	356 85	6,841 90	13,721 71
Fredericton.....	Wilson, J. E.....	100 00			87 00		187 00	36 00
St. John.....	Wilson, J. E.....	1,100 00			76 65	5 87	1,182 52	539 75
New Brunswick....		1,200 00			163 67	5 87	1,369 52	575 75
Halifax.....	{ Cotter, W. F..... Munro, H. D..... Toale, John..... }	1,099 96	600 00	375 00	310 23	108 25	2,493 44	404 75

SESSIONAL PAPER No. 13

APPENDIX E—Continued.

STATEMENT of Gas Inspection Expenditures and Revenues for the Fiscal Year ended March 31, 1909.

Districts.	Inspectors and Assistants.	EXPENDITURES.						Revenues.
		Salaries.	Special Assistance.	Rent.	Travelling Expenses.	Sundries.	Total.	
		\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
Charlottetown, P. E. I. . . .	Bell, J. H.	450 00				10 80	460 80	94 00
Winnipeg, Man. . . .	Macdonald, R. Mason, J. G.	1,099 92	900 00		54 05	41 55	2,095 52	1,688 00
Nanaimo	Shaw, John	100 00				71 72	171 72	45 25
New Westminster . . .	Wolfe, John, Wm. . . .	158 27				7 35	165 62	183 50
Vancouver	Templeton, W. A. . . .		533 10		46 40	66 50	646 00	2,003 50
Victoria	James, R.	200 00					200 00	753 25
British Columbia . . .		558 27	533 10		46 40	145 57	1,283 34	2,985 50

RECAPITULATION.

	EXPENDITURES.						Revenues.
	Salaries.	Special Assistance.	Rent.	Travelling Expenses.	Sundries.	Total.	
	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
Ontario	15,649 28	109 45	854 25	608 10	637 08	17,849 14	29,134 50
Quebec	6,049 80		390 00	45 25	226 85	6,841 90	13,721 71
New Brunswick	1,200 00			163 65	5 87	1,369 52	575 75
Nova Scotia	1,029 96	600 00	375 00	310 23	108 25	2,493 44	404 75
Prince Edward Island . .	470 00				10 80	460 80	94 00
Manitoba	1,099 92	900 00		54 05	41 55	2,095 52	1,688 00
British Columbia	558 27	533 10		46 40	145 57	1,283 34	2,985 50
Chief inspector	83 30			143 55	0 27	227 12	
General contingencies . .					755 91	755 91	
Printing					1,612 38	1,612 38	
Stationery					476 79	476 79	
Lithography					49 50	49 50	
Grand totals	26,181 53	2,142 53	1,619 25	1,371 23	4,200 82	35,515 36	48,604 21

W. J. GERALD,
Deputy Minister.INLAND REVENUE DEPARTMENT,
OTTAWA, June 18, 1909.

9-10 EDWARD VII., A. 1910

APPENDIX

RETURN of the Illuminating Power and Purity of Gas

INSPECTION OFFICES.	ILLUMINATING POWER.—STANDARD. 16 Candles.					SULPHUR PER 100 Allowance.—		
	Highest	Lowest.	Average,	No. of times be- low standard.	No. of Test.	Highest	Lowest.	Average
	Candles.	Candles.	Candles.			Grains.	Grains.	Grains.
Barrie —								
April.			19.20	0	1			
May.			18.80	0	1			
June.			18.70	0	1			
July.			18.80	0	1			
August.			16.70	0	1			
September.			17.30	0	1			
October.			17.10	0	1			
November.			18.80	0	1			
December.			18.90	0	1			
January.			18.70	0	1			
February.			16.70	0	1			
March.			16.50	0	1			
				0	12			
Belleville—								
April.	19.61	18.57	19.09	0	2			
May.	18.96	18.80	18.88	0	2			
June.	20.57	20.00	20.28	0	2			
July.	19.00	15.25	17.12	1	2			
August.	19.84	19.73	19.78	0	2			
September.			19.43	0	1			
October.	19.04	18.24	18.64	0	2			
November.	20.08	19.43	19.75	0	2			
December.	20.79	18.37	19.94	0	3			
January.	20.56	17.64	19.10	0	2			
February.			19.46	0	1			
March.	21.00	19.62	20.31	0	2			
				1	23			
Deseronto—								
April.			18.09	0	1			
May.			20.70	0	1			
June.			20.09	0	1			
July.			22.20	0	1			
August.			20.10	0	1			
September.			22.30	0	1			
October.								
November.			21.50	0	1			
December.			20.30	0	1			
January.			22.30	0	1			
February.			18.80	0	1			
March.			23.00	0	1			
				0	11			

SESSIONAL PAPER No. 13

F.

Inspected during the year ended March 31, 1909.

[illegible]

RETURN of the Illuminating Power and Purity of Gas

INSPECTION OFFICES.	ILLUMINATING POWER.—STANDARD. 16 Candles.					SULPHUR PER 100 Allowance—		
	Highest.	Lowest.	Average.	No. of times be- low standard.	No. of Tests.	Highest	Lowest.	Average
	Candles.	Candles.	Candles.			Grains.	Grains.	Grains.
Berlin—								
April.....			18.47	0	1			
May.....			17.77	0	1			
June.....			17.14	0	1			
July.....			16.48	0	1			
August.....			17.04	0	1			
September.....			17.96	0	1			
October.....			17.60	0	1			
November.....			17.28	0	1			
December.....			16.97	0	1			
January.....			16.55	0	1			
February.....			16.54	0	1			
March.....			16.90	0	1			
				0	12			
Brockville —								
April.....	20.82	20.64	20.73	0	2			
May.....	20.70	20.56	20.63	0	2			
June.....	20.76	20.62	20.69	0	2			
July.....	20.84	20.43	20.63	0	2			
August.....	21.00	20.60	20.80	0	2			
September.....			18.31	0	1			
October.....			20.32	0	1			
November.....	20.10	19.90	20.00	0	2			
December.....			20.10	0	1			
January.....	20.10	20.00	20.50	0	2			
February.....	20.10	19.90	20.00	0	2			
March.....	21.10	19.00	20.00	0	4			
				0	23			
Cobourg—								
April.....			17.26	0	1			
May.....			17.55	0	1			
June.....			17.76	0	1			
July.....			18.24	0	1			
August.....			17.72	0	1			
September.....			17.34	0	1			
October.....			17.15	0	1			
November.....			17.23	0	1			
December.....			17.38	0	1			
January.....			17.47	0	1			
February.....			18.02	0	1			
March.....			17.75	0	1			
				0	12			

SESSIONAL PAPER No. 13

F—Continued.

Inspected during the year ended March 31, 1909.

CUBIC FEET. 35 Grains.		Ammonia PER 100 CUBIC FEET. Allowance—4 Grains.					SULPHURETTED HYDROGEN.			REMARKS.
No. of times in excess of allow- ance.	No. of Tests.	Highest.	Lowest.	Average.	Times in excess of allowance.	No. of Tests.	No. of times ab- sent.	No. of times pre- sent.	No. of Tests.	
		Grains.	Grains.	Grains.						
.	1	0	1	
.	1	0	1	
.	1	0	1	
.	1	0	1	
.	1	0	1	
.	1	0	1	
.	1	0	1	
.	1	0	1	
.	1	0	1	
.	1	0	1	
.	0	1	1	
.	1	0	1	
.	11	1	12	
.	0	0	0	
.	0	0	0	
.	0	0	0	
.	0	0	0	
.	1	0	1	
.	1	0	1	
.	1	0	1	
.	2	0	2	
.	2	0	2	
.	4	0	4	
.	23	0	23	
.	0	0	0	
.	0	0	0	
.	0	0	0	
.	0	0	0	
.	1	1	2	
.	0	0	0	
.	0	0	0	
.	0	0	0	
.	0	0	0	
.	23	1	24	

APPENDIX

RETURN of the Illuminating Power and Purity of Gas

INSPECTION OFFICES.	ILLUMINATING POWER—STANDARD. 16 Candles.					SULPHUR PER 100 Allowance—		
	Highest.	Lowest.	Average.	No. of times below standard.	No. of Tests.	Highest	Lowest.	Average
	Candles.	Candles.	Candles.			Grains.	Grains.	Grains.
Port Hope—								
April			18 74	0	1			
May			19 68	0	1			
June			20 28	0	1			
July			19 46	0	1			
August			18 86	0	1			
September			19 89	0	1			
October			19 50	0	1			
November			18 75	0	1			
December			18 64	0	1			
January			18 62	0	1			
February			19 89	0	1			
March			18 13	0	1			
				0	12			
Cornwall—								
April			18 30	0	1			
May			18 10	0	1			
June			18 05	0	1			
July			18 10	0	1			
August			18 05	0	1			
September			18 05	0	1			
October			18 15	0	1			
November			18 15	0	1			
December			18 10	0	1			
January			18 30	0	1			
February			18 20	0	1			
March			18 00	0	1			
				0	12			
Guelph								
April			18 57	0	1			
May			18 07	0	1			
June			17 24	0	1			
July			18 56	0	1			
August			18 05	0	1			
September			17 58	0	1			
October			17 93	0	1			
November			17 15	0	1			
December			17 45	0	1			
January			18 19	0	1			
February			18 22	0	1			
March			18 16	0	1			
				0	12			

RETURN of the Illuminating Power and Purity of Gas

INSPECTION OFFICES.	ILLUMINATING POWER.—STANDARD. 16 Candles.					SULPHUR PER 100 Allowance—		
	Highest.	Lowest.	Average.	No. of times below standard.	No. of Tests.	Highest	Lowest.	Average
	Candles.	Candles.	Candles.			Grains.	Grains.	Grains.
Hamilton—								
April.....	17·87	17·72	17·79	0	12			
May.....	18·37	18·06	18·21	0	12			
June.....	17·85	17·74	17·79	0	12			
July.....	18·28	18·08	18·18	0	12			
August.....	18·46	18·18	18·32	0	12			
September.....	18·24	17·84	18·08	0	33			
October.....	18·33	18·26	18·29	0	12			
November.....	13·31	18·14	18·22	0	12			
December.....	18·23	18·21	18·22	0	12			
January.....	18·16	18·05	18·10	0	12			
February.....	18·48	18·26	18·37	0	12			
March.....	18·39	18·07	18·21	0	3			
				0	26			
Bertie Natural Gas Co.—								
April.....								
May.....								
June.....								
July.....								
August.....								
September.....								
October.....								
November.....								
December.....								
January.....								
February.....								
March.....								
Brantford Natural Gas Co.—								
April.....								
May.....								
June.....								
July.....								
August.....								
September.....								
October.....								
November.....								
December.....								
January.....								
February.....								
March.....								

RETURN of the Illuminating Power and Purity of Gas

INSPECTION OFFICES.	ILLUMINATING POWER.—STANDARD. 16 Candles.					SULPHUR PER 100 Allowance—		
	Highest.	Lowest.	Average.	No. of times be- low standard.	No. of Tests.	Highest	Lowest.	Average
	Candles.	Candles.	Candles.			Grains.	Grains.	Grains.
Dominion Natural Gas Co., Dundas & Dunnville—								
April								
May								
June								
July								
August								
September ..								
October								
November ..								
December ..								
January								
February								
March								
Mutual Natural Gas Co.— Welland and Port Colborne.								
April								
May								
June								
July								
August ..								
September ..								
October								
November ..								
December ..								
January								
February								
March								
Port Colborne—Welland, Nat. Gas Co., Caledonia—								
April								
May								
June ..								
July ..								
August ..								
September ..								
October ..								
November ..								
December ..								
January ..								
February ..								
March ..								

APPENDIX

RETURN of the Illuminating Power and Purity of Gas

INSPECTION OFFICES.	ILLUMINATING POWER—STANDARD. 16 Candles.					SULPHUR PER 100 Allowance—		
	Highest.	Lowest.	Averages.	No. of times be- low standard.	No. of Tests.	Highest	Lowest.	Average
	Candles.	Candles.	Candles.			Grains.	Grains.	Grains.
Provincial Natural Gas Co.— Niagara Falls and Bridgeburg								
April								
May								
June								
July								
August								
September								
October								
November								
December								
January								
February								
March								
St. Catharines Gas Co.—								
April			17 63	0	1			
May			17 55	0	1			
June			17 65	0	1			
July			17 95	0	1			
August			17 63	0	1			
September			17 68	0	1			
October			17 45	0	1			
November			17 46	0	1			
December			17 37	0	1			
January			17 47	0	1			
February			17 73	0	1			
March			16 70	0	1			
				0	12			
Dominion Natural Gas Co.— Galt.								
April								
May								
June								
July								
August								
September								
October								
November								
December								
January								
February								
March								

RETURN of the Illuminating Power and Purity of Gas

INSPECTION OFFICES.	ILLUMINATING POWER.—STANDARD. 16 Candles.					SULPHUR PER 100 Allowance —		
	Highest.	Lowest.	Average.	No. of times be- low standard.	No. of Tests.	Highest	Lowest.	Average
	Candles.	Candles.	Candles.			Grains.	Grains.	Grains.
United Natural Gas—								
April								
May.....								
June								
July.....								
August.....								
September.....								
October								
November								
December								
January.....								
February.....								
March.....								
Ontario Pipe Line—								
April								
May.....								
June								
July.....								
August.....								
September.....								
October								
November								
December								
January								
February								
March								
Kingston—								
April	20·70	19·81	20·25	0	2			
May.....	20·61	19·46	20·03	0	2			
June	20·00	19·08	19·54	0	2			
July.....	19·46	19·11	19·28	0	2			
August.....	18·90	16·70	17·80	0	2			
September.....			19·60	0	1			
October.....			19·50	0	1			
November	20·00	19·80	19·90	0	2			
December			20·10	0	1			
January.....	20·10	19·50	19·80	0	2			
February.....	20·00	19·60	19·80	0	2			
March.....	20·00	19·00	19·60	0	4			
				0	23			

RETURN of the Illuminating Power and Purity of Gas

INSPECTION OFFICES.	ILLUMINATING POWER.—STANDARD. 16 Candles.					SULPHUR PER 100 Allowance—		
	Highest.	Lowest.	Average.	No. of times be- low standard.	No. of Tests.	Highest	Lowest.	Average
	Candles.	Candles.	Candles.			Grains.	Grains.	Grains.
Listowel--								
April.....			18·94	0	1			
May.....			18·88	0	1			
June.....			19·38	0	1			
July.....			19·62	0	1			
August.....			19·36	0	1			
September.....			19·92	0	1			
October.....			17·34	0	1			
November.....			18·12	0	1			
December.....			19·02	0	1			
January.....			17·60	0	1			
February.....			18·07	0	1			
March.....			18·20	0	1			
				0	12			
London—								
April.....	18·31	15·32	16·66	1	8			
May.....	18·36	15·72	17·15	1	10			
June.....	17·70	16·50	17·02	0	8			
July.....	18·82	15·67	16·75	3	8			
August.....	21·40	18·42	16·70	0	10			
September.....	20·46	17·41	18·88	0	8			
October.....	19·32	17·54	18·41	0	10			
November.....	19·74	16·25	18·53	0	8			
December.....	20·80	17·48	18·92	0	8			
January.....	22·41	16·19	18·36	0	10			
February.....	19·77	17·07	18·54	0	8			
March.....	18·78	16·88	18·05	0	8			
				5	104			
Chatham—								
April.....								
May.....								
June.....								
July.....								
August.....								
Septembre.....								
Octobre.....								
Novembre.....								
Decembre.....								
January.....								
February.....								
March.....								

9-10 EDWARD VII., A. 1910

APPENDIX

RETURN of the Illuminating Power and Purity of Gas

INSPECTION OF OFFICES.	ILLUMINATING POWER.—STANDARD. 16 CANDLES.					SULPHUR PER 100 ALLOWANCE		
	Highest.	Lowest.	Average.	No. of times be- low standard.	No. of Test.	Highest	Lowest.	Average
	Candles.	Candles.	Candles.			Grains.	Grains.	Grains.
Ingersoll								
April			16·39	0	1			
May	18·19	12·55	15·23	1	2			
June			16·06	0	1			
July			16·00	0	1			
August			17·30	0	1			
September			16·71	0	1			
October			13·58	1	1			
November			15·58	1	1			
December			20·13	0	1			
January			16·85	0	1			
February			15·04	1	1			
March			17·13	0	1			
				4	13			
City of St. Thomas—								
April			16·69	0	1			
May	18·15	17·20	17·67	0	1			
June			17·98	0	1			
July			16·87	0	1			
August	19·80	18·79	19·29	0	2			
September			18·27	0	1			
October			17·78	0	1			
November			16·50	0	1			
December			16·81	0	1			
January			17·37	0	1			
February			17·00	0	1			
March			17·67	0	1			
				0	13			
Windsor—								
April			17·03	0	1			
May	17·40	16·69	17·04	0	2			
June	17·63	15·23	16·43	1	2			
July	15·45	15·27	15·36	2	2			
August	17·05	15·74	16·39	1	2			
September	16·90	16·10	16·50	0	2			
October			16·32	0	1			
November	16·73	15·92	16·32	1	2			
December			16·46	0	1			
January			16·33	0	1			
February			16·74	0	1			
March			16·00	0	1			
				5	18			

SESSIONAL PAPER No. 13

F—Continued.

Inspected during the year ended March 31, 1909—Continued.

CUBIC FEET. 35 GRAINS.		AMMONIA PER 100 CUBIC FEET. ALLOWANCE—4 GRAINS.					SULPHURETTED HYDROGEN.			REMARKS.
No. of times in excess of allow- ance.	No. of Tests.	Highest.	Lowest.	Average.	Times in excess of allowance.	No. of Tests.	No. of times ab- sent.	No. of times pre- sent.	No. of Tests.	
		Grains.	Grains.	Grains.						
							1	0	1	
							1	0	1	
							1	0	1	
							1	0	1	
							1	0	1	
							1	0	1	
							1	0	1	
							1	0	1	
							0	1	1	
							1	0	1	
							12	1	13	
							1	0	1	
							2	0	2	
							1	0	1	
							2	0	2	
							1	0	1	
							1	0	1	
							1	0	1	
							1	0	1	
							1	0	1	
							1	0	1	
							14	0	14	
							1	0	1	
							2	0	2	
							2	0	2	
							2	0	2	
							2	0	2	
							1	0	1	
							2	0	2	
							1	0	1	
							1	0	1	
							1	0	1	
							18	0	18	

APPENDIX

RETURN of the Illuminating Power and Purity of Gas

INSPECTION OFFICES.	ILLUMINATING POWER.—STANDARD. 16 Candles.					SULPHUR PER 100 Allowance—		
	Highest.	Lowest.	Average.	No of times be- low standard..	No. of Tests.	Highest	Lowest.	Average
	Candles.	Candles.	Candles.			Grains.	Grains.	Grains.
Napanee —								
April.....			20.10	0	1			
May.....								
June.....								
July.....								
August.....								
September.....			21.06	0	1			
October.....			19.14	0	1			
November.....			21.08	0	1			
December.....			19.87	0	1			
January.....								
February.....			19.60	0	.1			
March.....								
				0	6			
Ottawa—								
April.....	16.51	16.34	16.42	0	8	14.92	14.61	14.76
May.....	16.85	16.06	16.45	0	8	14.75	14.58	14.66
June.....	16.78	16.34	16.53	0	10	14.93	14.37	14.65
July.....	16.75	16.27	16.50	0	8	14.97	14.47	14.72
August.....	16.65	16.28	16.45	0	8	14.85	14.63	14.74
September.....	16.66	16.35	16.43	0	10	14.85	14.58	14.71
October.....	16.79	16.29	16.50	0	8	14.85	14.38	14.61
November.....	16.72	16.23	16.49	0	8	27.30	14.95	21.12
December.....	16.68	16.32	16.51	0	10	14.66	14.58	14.62
January.....	16.68	16.39	16.48	0	8	14.95	14.63	14.79
February.....	16.64	16.27	16.46	0	8	14.75	14.29	14.52
March.....	16.62	16.29	16.45	0	10	14.81	14.29	14.55
				0	104			
Owen Sound—								
April.....			16.20	0	1			
May.....			16.28	0	1			
June.....			17.00	0	1			
July.....			16.30	0	1			
August.....			16.71	0	1			
September.....			16.50	0	1			
October.....			16.33	0	1			
November.....			16.50	0	1			
December.....			17.00	0	1			
January.....			16.12	0	1			
February.....			16.50	0	1			
March.....			16.25	0	1			
				0	12			

SESSIONAL PAPER No. 13

F—Continued.

inspected during the year ended March 31, 1909—Continued.

CUBIC FEET. 35 Grains.		AMMONIA PER 100 CUBIC FEET. Allowance—4 Grains.				SULPHURETTED HYDROGEN.			REMARKS	
No. of times in excess of allow- ance.	No. of Tests.	Highest.	Lowest.	Average.	Times in excess of allowance.	No. of Tests.	No. of times ab- sent.	No. of times pre- sent.		
		Grains.	Grains.	Grains.						
							1	0	1	Gas works burned up.
										Gas works not re- built yet.
							1	0	1	
							1	0	1	
							1	0	1	
							1	0	1	
										No test. Pressure gauge broken. No test. Photo- meter broken.
							1	0	1	
							6	0	6	
0	22	1.96	1.77	1.86	0	22	2	0	2	
0	22	2.22	2.18	2.20	0	22	2	0	2	
0	22	2.18	2.12	2.15	0	22	10	0	10	
0	22	2.20	2.16	2.18	0	22	2	0	2	
0	22	2.26	2.16	2.21	0	22	2	0	2	
0	22	2.18	2.13	2.15	0	22	10	0	10	
0	22	2.16	2.18	1.67	0	22	2	0	2	
0	22	2.17	1.34	1.75	0	22	2	0	2	
0	22	1.22	2.03	2.12	0	22	10	0	10	
0	22	1.86	1.23	1.54	0	22	2	0	2	
0	22	2.16	1.77	1.96	0	22	2	0	2	
0	22	2.29	2.13	2.21	0	22	10	0	10	
0	24				0	24	104	0	104	
							1	0	1	
							1	0	1	
							1	0	1	
							1	0	1	
							1	0	1	
							1	0	1	
							1	0	1	
							1	0	1	
							1	0	1	
							1	0	1	
							1	0	1	
							12	0	12	

RETURN of the Illuminating Power and Purity of Gas

INSPECTION OFFICE.	ILLUMINATING POWER—STANDARD. 16 Candles.					SULPHUR PER 100 Allowance—		
	Highest.	Lowest.	Average.	No. of times be- low Standard.	No. of Tests.	Highest	Lowest.	Average
	Candles.	Candles.	Candles.			Grains.	Grains.	Grains.
Peterborough—								
April	17·20	16·80	17·00	0	2			
May	20·40	17·40	18·90	0	2			
June	21·00	19·20	20·10	0	2			
July	20·20	18·80	19·50	0	2			
August	20·40	19·00	19·70	0	2			
September	17·20	16·80	17·00	0	2			
October	18·00	17·20	17·60	0	2			
November	17·60	16·80	17·20	0	2			
December	18·10	17·00	17·55	0	2			
January	17·80	16·60	17·20	0	2			
February	17·20	16·40	16·80	0	2			
March	18·60	18·00	18·30	0	2			
				0	24			
Sarnia—								
April			20·30	0	1			
May			19·04	0	1			
June			19·96	0	1			
July			17·44	0	1			
August			17·44	0	1			
September			19·56	0	1			
October			20·30	0	1			
November			20·72	0	1			
December			19·86	0	1			
January			19·92	0	1			
February			19·34	0	1			
March			19·72	0	1			
				0	12			
Stratford—								
April								
May			17·54	0	1			
June			16·80	0	1			
July			17·23	0	1			
August			17·22	0	1			
September			17·36	0	1			
October			16·60	0	1			
November			16·40	0	1			
December			17·09	0	1			
January			16·96	0	1			
February			16·94	0	1			
March			16·00	0	1			
				0	11			

RETURN of the illuminating Power and Purity of Gas

INSPECTION OFFICE.	ILLUMINATING POWER—STANDARD. 16 Candles.					SULPHUR PER 100 Allowance—		
	Highest.	Lowest.	Average.	No. of times be- low standard.	No. of Tests.	Highest	Lowest.	Average
	Candles.	Candles.	Candles.			Grains.	Grains.	Grains.
Toronto—								
April.....	19·21	18·44	18·80	0	9	.....	.....	.....
May.....	18·89	18·28	18·62	0	9	.....	.....	.....
June.....	19·10	18·13	18·57	0	9	14·81	11·25	13·03
July.....	18·94	18·36	18·57	0	8	14·12	12·65	13·38
August.....	21·09	17·92	19·65	0	9	11·31	9·89	10·60
September.....	20·70	19·66	20·27	0	9	14·22	13·83	14·02
October.....	20·73	19·55	20·11	0	9	12·45	11·10	11·77
November.....	20·99	19·82	20·43	0	8	16·96	12·84	14·90
December.....	20·56	19·42	20·19	0	9	15·26	13·90	14·58
January.....	20·94	20·29	19·42	0	9	12·60	10·46	8·32
February.....	19·93	18·50	18·93	0	8	14·51	11·59	13·05
March.....	19·05	18·06	18·63	0	9	14·06	8·50	11·28
				0	105			
Woodstock -								
April.....			17·52	0	1	.....	.....	.....
May.....			16·47	0	1	.....	.....	.....
June.....			16·93	0	1	.....	.....	.....
July.....			17·15	0	1	.....	.....	.....
August.....			16·38	0	1	.....	.....	.....
September.....			16·86	0	1	.....	.....	.....
October.....			16·92	0	1	.....	.....	.....
November.....			16·85	0	1	.....	.....	.....
December.....			17·16	0	1	.....	.....	.....
January.....			16·42	0	1	.....	.....	.....
February.....			16·98	0	1	.....	.....	.....
March.....			16·73	0	1	.....	.....	.....
				0	12			
Montreal—								
April.....	16·81	16·16	16·46	0	8	7·60	7·00	7·30
May.....	18·35	16·50	17·42	0	9	2·91	2·80	2·85
June.....	19·71	16·98	17·99	0	9	2·80	2·80	2·80
July.....	18·98	16·98	18·01	0	9	5·62	2·97	4·29
August.....	20·68	17·08	19·19	0	8	4·25	3·68	3·96
September.....	20·47	16·78	18·20	0	9	3·30	2·48	2·89
October.....	17·02	16·02	16·35	0	9	2·86	2·75	2·80
November.....	18·12	16·13	17·23	0	8	2·80	2·26	2·53
December.....	17·19	16·01	16·22	0	9	2·93	2·58	2·75
January.....	17·53	16·07	16·52	0	9	3·18	2·61	2·89
February.....	16·39	16·01	16·12	0	8	2·56	2·05	2·30
March.....	16·49	16·00	16·18	0	9	2·28	2·11	2·19
				0	104			

RETURN of the Illuminating Power and Purity of Gas

INSPECTION OFFICE.	ILLUMINATING POWER.—STANDARD. 16 Candles.					SULPHUR PER 100 Allowance —		
	Highest.	Lowest.	Average.	No. of times be- low standard.	No. of Test.	Highest	Lowest.	Average
	Candles.	Candles.	Candles.			Grains.	Grains.	Grains.
Quebec								
April			17·87	0	1	20·55	16·86	18·70
May			17·10	0	1	19·73	16·72	18·22
June			18·00	0	1	17·95	17·94	17·95
July			17·57	0	1	22·10	16·79	19·44
August			17·23	0	1	19·56	17·75	18·65
September			17·70	0	1	20·54	17·44	18·99
October			17·32	0	1	19·56	17·29	18·42
November			18·06	0	1	17·61	16·64	17·12
December			16·43	0	1	19·75	16·29	18·02
January			17·11	0	1	18·50	17·18	17·84
February			17·12	0	1	18·00	16·05	17·02
March			17·24	0	1	20·80	15·32	18·06
				0	12			
Sherbrooke—								
April			18·29	0	1			
May			16·34	0	1			
June			16·65	0	1			
July			17·16	0	1			
August			19·64	0	1			
September			16·67	0	1			
October			15·22	1	1			
November			16·47	0	1			
December			17·17	0	1			
January			16·70	0	1			
February			13·15	1	1			
March			17·77	0	1			
				2	12			
St. Hyacinthe —								
April			18·17	0	1			
May			18·18	0	1			
June			18·13	0	1			
July			18·21	0	1			
August			18·37	0	1			
September			18·14	0	1			
October			18·76	0	1			
November			18·61	0	1			
December			18·58	0	1			
January			18·86	0	1			
February			18·46	0	1			
March			18·22	0	1			
				0	12			

RETURN of the Illuminating Power and Purity of Gas

INSPECTION OFFICES.	ILLUMINATING POWER—STANDARD. 16 CANDLES.					SULPHUR PER 100 ALLOWANCE—		
	Highest.	Lowest.	Average.	No. of times be- low Standard.	No. of Tests.	Highest	Lowest.	Average
	Candles.	Candles.	Candles.			Grains.	Grains.	Grains.
Fredericton—								
April			16·80	0	1			
May			17·11	0	1			
June			16·94	0	1			
July								
August			17·24	0	1			
September			17·08	0	1			
October			16·98	0	1			
November			17·13	0	1			
December			16·76	0	1			
January			16·80	0	1			
February			16·14	0	1			
March								
				0	10			
St. John—								
April	18·60	18·53	18·56	0	2			25·08
May	18·02	17·65	17·83	0	2			24·76
June	18·16	17·90	18·03	0	2			20·16
July	18·16	17·73	17·94	0	2			19·88
August	18·26	17·64	17·95	0	2			22·69
September	18·39	17·17	17·78	0	2			24·41
October	17·78	17·64	17·71	0	2			20·85
November	18·09	17·13	17·61	0	2			22·58
December	17·52	17·48	17·50	0	2			23·89
January	17·59	17·22	17·40	0	2			23·76
February	16·99	16·94	16·96	0	2			21·26
March	17·60	17·08	17·36	0	3			22·54
				0	25			
Moncton—								
April			18·76	0	1			
May			19·83	0	1			
June			18·51	0	1			
July			19·10	0	1			
August			18·10	0	1			
September			18·65	0	1			
October			18·66	0	1			
November			18·40	0	1			
December			18·73	0	1			
January			19·07	0	1			
February			18·87	0	1			
March			19·34	0	1			
				0	12			

SESSIONAL PAPER No. 13

F—Continued.

Inspected during the Year ended March 31, 1909—Continued.

CUBIC FEET. 25 GRAINS.		AMMONIA PER 100 CUBIC FEET. ALLOWANCE—4 GRAINS					SULPHURETTED HYDROGEN.			REMARKS.
No. of Times in excess of al- lowance.	No. of Tests.	Highest.	Lowest.	Average.	Times in excess of allowance.	No. of Tests.	No. of times ab- sent.	No. of times pre- sent.	No. of Tests.	
		Grains.	Grains.	Grains.						
							1	0	1	No test on account of thickness.
							1	0	1	
							1	0	1	
							1	0	1	
							1	0	1	
							1	0	1	
							1	0	1	
							1	0	1	
							1	0	1	
										No test, meter out of repair.
							10	0	10	
0	1			0.00	0	1	2	0	2	
0	1			0.00	0	1	2	0	2	
0	1			0.00	0	1	2	0	2	
0	1			0.00	0	1	2	0	2	
0	1			0.00	0	1	2	0	2	
0	1			0.00	0	1	2	0	2	
0	1			0.00	0	1	2	0	2	
0	1			0.00	0	1	2	0	2	
0	1			0.00	0	1	2	0	2	
0	1			0.00	0	1	2	0	2	
0	1			0.00	0	1	2	0	2	
0	1			0.00	0	1	3	0	3	
0	12				0	12	25	0	25	
							1	0	1	
							1	0	1	
							1	0	1	
							1	0	1	
							1	0	1	
							1	0	1	
							1	0	1	
							1	0	1	
							1	0	1	
							1	0	1	
							1	0	1	
							12	0	12	

RETURN of the Illuminating Power and Purity of Gas

INSPECTION OFFICES.	ILLUMINATING POWER—STANDARD. 16 Candles.					SULPHUR PER 100 Allowance—		
	Highest.	Lowest.	Average.	No. of times be- low standard.	No. of Tests.	Highest	Lowest.	Average
	Candles.	Candles.	Candles.			Grains.	Grains.	Grains.
Halifax								
April.			17·02	0	1			16·86
May			17·20	0	1			17·63
June			17·57	0	1			17·02
July			17·06	0	1			11·87
August.....			17·45	0	1			25·22
September...			16·39	0	1			33·63
October.....			16·84	0	1			19·35
November			18·03	0	1			28·51
December. . .			17·21	0	1			25·11
January			16·39	0	1			19·45
February. . .			17·24	0	1			20·67
March.....			17·20	0	1			18·45
				0	12			
Yarmouth								
April....			17·58	0	1			
May.....			16·85	0	1			
June.....			17·10	0	1			
July.....			17·41	0	1			
August			17·41	0	1			
September....			17·50	0	1			
October			17·10	0	1			
November.....			16·81	0	1			
December			17·64	0	1			
January.....			17·10	0	1			
February.....			17·10	0	1			
March.....			17·56	0	1			
				0	12			
Charlottown—								
April.			17·04	0	1			
May... ..			18·20	0	1			
June			18·69	0	1			
July.....			14·96	1	1			
August.. ..			17·59	0	1			
September....			17·83	0	1			
October.....			19·81	0	1			
November.....			18·00	0	1			
December.....			16·54	0	1			
January.....	16·99	14·21	15·81	3	7			
February.....	20·05	14·78	17·54	1	4			
March... ..	23·01	17·94	20·50	0	4			
				5	24			

RETURN of the Illuminating Power and Purity of Gas

INSPECTION OFFICES.	ILLUMINATING POWER—Standard, 16 Candles.					SULPHUR PER 100 Allowance—		
	Highest.	Lowest.	Average.	No. of times below stand- ard.	No. of Tests.	Highest	Lowest.	Average
	Candles.	Candles.	Candles.			Grains.	Grains.	Grains.
Winnipeg—								
April.....	18·19	16·87	17·65	0	8			
May.....	18·58	16·52	17·88	0	9			
June.....	18·10	16·70	17·32	0	8			
July.....	18·90	16·73	17·54	0	9			
August.....	17·28	16·43	16·98	0	8			
September.....	18·16	16·43	17·37	0	9			
October.....	18·10	16·58	17·18	0	9			
November.....	18·90	16·93	17·70	0	8			
December.....	18·12	16·84	17·47	0	8			
January.....	18·12	16·84	17·43	0	10			
February.....	18·03	16·87	17·27	0	8			
March.....	18·02	16·27	17·29	0	7			
				0	101			
Nanaimo—								
April.....								
May.....								
June.....								
July.....								
August.....								
September.....			16·91	0	1			
October.....			17·30	0	1			
November.....			16·24	0	1			
December.....			18·76	0	1			
January.....			16·09	0	1			
February.....			17·69	0	1			
March.....			17·21	0	1			
				0	7			
New Westminster—								
April.....								
May.....								
June.....								
July.....			19·21	0	1			
August.....			20·72	0	1			
September.....			19·33	0	1			
October.....			19·55	0	1			
November.....			19·72	0	1			
December.....			19·01	0	1			
January.....			19·15	0	1			
February.....			19·07	0	1			
March.....			18·89	0	1			
				0	9			

9-10 EDWARD VII., A. 1910

APPENDIX

RETURN of the Illuminating Power and Purity of Gas

INSPECTION OFFICES.	ILLUMINATING POWER.—STANDARD. 16 Candles.					SULPHUR PER 100 Allowance—		
	Highest.	Lowest.	Average.	No. of times be- low Standard.	No. of Tests.	Highest	Lowest.	Average
	Candles.	Candles.	Candles.			Grains.	Grains.	Grains.
Vancouver —								
April			16.50	0	1			
May			16.75	0	1			
June			16.50	0	1			
July			17.00	0	1			
August	17.00	16.50	16.75	0	2			
September	17.50	16.50	16.93	0	4			
October	17.00	16.04	16.63	0	6			
November	17.40	16.00	16.60	0	8			
December	18.04	16.35	17.26	0	8			
January	18.18	16.00	16.98	0	10			
February	18.40	16.00	16.90	0	8			
March	16.60	16.00	16.37	0	8			
				0	58			
Victoria —								
April								
May			17.38	0	1			
June			17.30	0	1			
July			17.05	0	1			
August			17.13	0	1			
September								
October			16.80	0	1			
November								
December								
January								
February			17.60	0	1			
March								
				0	6			

APPENDIX A

Information for the Study presented for the purpose of the study and the results of the study are presented in the following table.

Study Title	Author	Year	Method	Findings	Conclusion
The Effect of... on...	John Doe	2018	Quantitative	...	...
		2019	Qualitative	...	...
		2020	Mixed	...	...
The Impact of... on...	Jane Smith	2017	Quantitative	...	...
		2018	Qualitative	...	...
		2019	Mixed	...	...
The Role of... in...	Michael Brown	2016	Quantitative	...	...
		2017	Qualitative	...	...
		2018	Mixed	...	...

For more information, please contact the author.

Dr. John Doe

SESSIONAL PAPER No. 13

APPENDIX H

STATEMENT of Electric Light Inspection, Expenditures and Revenues, for the Fiscal Year ended March 31, 1909.

Districts	Inspectors	EXPENDITURES						REVENUES	
		Salaries	Special Allowances	Rent	Travelling Expenses	Postages	Total		
		\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	
Belleville.....	Leahy, Wm. J. Francis, Harold	67 25		81 25	280 44	50 15	1,169 07	1,387 25	
Hamilton	McPhee, D.				126 50		116 00	2,818 25	
London	Nash, A. F.			....	290 30	7 75	298 10	1,831 75	
Ottawa	Rosen, H. G.				253 75		513 75	3,314 00	
Toronto	Thompson, J. K.	.....	651 50		628 80	104 46	1,424 85	8,568 00	
	Ottawa	67 25	651 50	81 25	1,880 29	162 36	3,432 72	17,949 25	
Montreal	Aubin, A.		294 28		41 00	14 29	269 27	9,787 00	
Quebec.....	LeVasseur, N.				35 31	81 77	156 78	544 00	
Shawmut	Simpson, A. F.				125 50	8 25	132 25	284 25	
St. Hyacinthe	Prévost, J. P.	80 00			177 15	3 50	480 65	458 50	
Three Rivers	Renaud, G. W.	80 00		60 00	48 00	29 12	625 72	274 50	
	Quebec	800 00	294 28	60 00	445 26	127 93	1,638 57	11,448 25	
St. John, N.B.	Wilson, J. E....				398 11	9 71	217 86	1,569 75	
Halifax, N.S.	Carter, W. F.				417 77	5 10	422 87	1,821 50	
Charlottetown, P.E.I.	Boyd, J. H.				41 20	59 60	103 15	379 00	
Windsor	Manning, H.	800 00			72 80		373 85	5,449 50	
Edmonton, Alta.	Stuart, Jas.	1,214 90	75 00	115 00	112 30	61 30	1,789 44	2,107 00	
Vancouver	Miller, J. E.	240 00			106 20	23 22	273 42	3,809 75	
Victoria	Jones, H.				18 75	10 30	29 05	1,453 25	
	British Columbia	240 00			124 95	33 52	402 47	5,263 00	
Diocese of Vancouver	McDonald, J. P.	500 00					500 00		
Chief Electrical Engineer		2,400 00	794 58		368 48	628 85	3,531 60		
General Office Expenses						624 80	5,691 80		
Printing						252 75	252 75		
Stationery						142 08	142 08		
	Grand Totals	6,171 15	1,725 48	456 25	3,673 70	7,182 05	15,569 35	41,969 25	

INLAND REVENUE DEPARTMENT,
OTTAWA, June 18, 1909.

W. J. GERALD,
Deputy Minister.

9-10 EDWARD VII., A. 1910

APPENDIX I.

STATEMENT showing the number of Electric Meters Verified, Rejected and Verified after first rejection for the Fiscal Year ended March 31, 1909.

Districts.	Presented for verification.	Verified as coming within the error tolerated by law.			Rejected.			Verified after first rejection.			Totals.	
		Correct.	Fast.	Slow.	Unsound.	Fast.	Slow.	Correct.	Fast.	Slow.	Verified.	Rejected.
Belleville.....	1,174	665	199	310							1,174	
Hamilton.....	2,561	922	410	1,228		1					2,560	1
London.....	1,563	769	423	360	1	8	2				1,552	11
Ottawa.....	3,990	978	1,502	1,475	34	1					3,955	35
Toronto.....	6,654	2,032	2,788	1,796		19	19				6,616	38
Montreal.....	7,524	2,556	4,746	214		4	4				7,516	8
Quebec.....	643	378	202	63							643	
Sherbrooke.....	437	216	124	97							437	
St. Hyacinthe.....	391	98	203	89		1					390	1
Three Rivers.....	260	155	52	53							260	
St. John.....	1,152	548	316	285		3					1,149	3
Halifax.....	1,751	1,711	11	10	7	6	6				1,732	19
Charlottetown.....	334	135	118	72	6		3				325	9
Winnipeg.....	2,910	1,854	420	636							2,910	
Calgary.....	2,151	893	559	699							2,151	
Vancouver.....	3,797	663	1,437	1,697							3,797	
Victoria.....	1,709	1,139	263	307							1,709	
Grand totals.....	39,001	15,712	13,773	9,391	48	43	34				38,876	125

W. J. GERALD,
Deputy Minister

INLAND REVENUE DEPARTMENT,
OTTAWA, June 18, 1909.

APPENDIX J

STATEMENT showing the Electric Light Companies registered under the Electric Light Inspection Act, during the year ended March 31, 1909.

Districts.	Name of Company.	Total Number.	Certificate by Whom Issued.	Certificate for Fiscal Year.	NUMBER OF LAMPS.		
					Arc.	Incandescant.	Totals.
Belleville.	The Corporation of Picton	1	C. I. R., Belleville	1908-09	41	6,300	6,710
	The Frankford Electric Light Co., Ltd.	2	"	"		300	300
	The Trenton Electric and Water Co., Ltd. Trenton and Belleville	3	"	"	65	13,127	14,077
	The Marston Electric Co., Ltd.	4	"	"	12	766	766
	The Corporation of Madoc	5	"	"		1,200	1,320
	Pat & Sargent, Bancroft	6	"	"		600	600
	W. P. Niles, Wellington	7	"	"	18	1,000	1,180
	The Tweed Electric Light and Power Co.	8	"	"	7	1,200	1,270
	St. Lawrence Power Co., Ltd., Mills, Roches	9	C. I. R., Cornwall	1908-09	230	900	3,200
	The Vanklack Hill Electric Light Co., Ltd.	10	"	"	4	1,420	1,460
	Corporation of the Town of Alexandria	11	"	"	3	1,500	1,530
	Stormont Electric Light and Power Co., Cornwall	12	"	"	16	2,690	2,850
	Joseph Bishop & Son, Crystler	13	"	"		400	400
	Hawkesbury Electric Light and Power Co., Ltd.	14	"	"	4	2,343	2,392
	The Benjamin Manufacturing Co. of Yarker, Ltd.	15	C. I. R., Kingston	1908-09		300	300
	A. A. Conroy, Yarker	16	"	"		125	125
	School of Mining, Kingston	17	"	"	13	125	255
	Corporation of the City of Kingston	18	"	"	150	8,400	9,900
	Corporation of Napanee	19	"	"	40	1,800	2,200
	Port Hope Electric Light and Power Co., Ltd.	20	"	"	26	2,300	2,660
	The Cobourg Utilities Corporation, Ltd.	1	C. I. R., Port Hope and	1908-09	31	5,000	5,310
	Geo. H. Davidson, Brighton	2	"	"		600	600
	Peterboro Light and Power Co., Ltd.	3	"	"		22,500	24,900
	Fowlds Co., Ltd. Hastings	4	"	"	13	800	930
	The Board of Water, Light and Power Commission, Fondon Falls	5	"	"	14	1,518	1,658
	The Light, Heat and Power Co., Ltd., Lindsay	6	"	"	96	12,000	12,960
	W. C. Harrison, Norwood	7	"	"	13	700	830
	The Corporation of the Town of Campbellford	8	"	"		2,564	2,934
	D. J. Galbraith, Newcastle	9	"	"	37	400	440
		10	"	"			

APPENDIX J—Continued.
STATEMENT showing the Electric Light Companies registered under the Electric Light Inspection Act, during the year ended March 31, 1909—Continued.

Districts.	Name of Company.	Serial No.	Certificate by whom issued.	Certificate for Fiscal Year.	NUMBER OF LAMPS.		
					Arc.	Incan- descent.	Totals.
Belleville	Otonabee Power Co., Ltd., Peterboro'.	11	C. I. R., Peterborough.	1908-09.	20	12,000	12,200
	The Havelock Electric Light and Power Co., Ltd.	12	"	"	13	1,150	1,280
	The Lakefield Electric Light Co.	13	"	"	8	1,300	1,380
	Bobcaygeon Electric Light Commission.	14	"	"	22	930	1,150
	J. H. Goodrich and G. M. Peebles, Colborne	15	"	"		800	800
	Stephenson Bros., Omemee	16	"	"		400	400
	Davidson & Harrington, Millbrook	17	"	"	6	400	460
	Bowmanville Electric Light Co., Ltd.	18	"	"	17	1,700	1,870
	Water and Light Commissioners, Prescott.	1	C. I. R., Prescott	1908-09.	10	4,000	4,100
	The Brockville Light and Power Department	2	"	"	99	5,000	5,990
	Kenapville Milling Co. Ltd.	3	"	"		1,500	1,500
	Gananoque Electric Light and Water Supply Co., Ltd.	4	"	"	25	1,500	1,750
	Morrisburg Electric Light and Power Co.	5	"	"		3,000	3,000
	Merrickville Electric Light and Power Co.	6	"	"	1	475	485
	Municipality of the Village of Iroquois	7	"	"	13	1,026	1,156
	Cardinal Electric Light Co., Ltd.	8	"	"		1,500	1,500
	The Westford Electric Light and Milling Co., Ltd.	9	"	"		653	653
	Frank Elliott, Winchester	10	"	"		500	500
Hamilton	Simcoe Gas and Water Co., Ltd.	1	C. I. R., Brantford	1908-09.	30		300
	Corporation of the Town of Paris.	2	"	"	35	2,500	2,850
	Western Counties Electric Companies, Brantford	3	"	"	300	25,000	28,000
	Tillsonburg Electric Light Works	4	"	"	5	2,850	2,900
	The Brantford Street Railway Co.	5	"	"		150	150
	Herbert Webster, Norwich		"	"		1,671	1,671
	James Munro, Kmbro	7	"	"		430	430
	Woodstock Water and Light System	8	"	"	172	8,000	9,726
	The Ingersoll Electric Power and Light Co., Ltd.	9	"	"	51	3,040	3,550
	Delhi Light and Power Co., Ltd.	10	"	"		700	700
	The Hamilton Cataract Power, Light and Traction Co., Ltd.	1	C. I. R., Hamilton.	1908-09.		500	500
	The Hamilton Electric Light and Power Co., Ltd.	2	"	"	650	106,000	112,500
	The Electric Power and Manufacturing Co., Ltd., Hamilton.	3	"	"		200	200
	The Dundas Electric Co., Ltd.	4	"	"	5	3,141	3,191

SESSIONAL PAPER No. 13

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STATEMENT showing the Electric Light Companies registered under the Electric Light Inspection Act, during the Year ended March 31, 1909—Continued.

Districts.	Name of Company.	Serial No.	Certificate by whom Issued.	Certificate for Fiscal Year.	NUMBER OF LAMPS.		
					Arc.	Incan- descent.	Totals.
London.	W. H. McCracken, Ridgeway	9	C. I. R., Windsor.	1908-09.	15	1,200	1,350
	Chatham Gas Co., Ltd.	10	"	"	25	10,000	10,250
	Amherstburg Electric Light, Heat and Power Co.	11	"	"		1,400	1,400
	Charles E. Naylors, Essex	12	"	"	8	1,200	1,280
	Corporation of the Town of Blenheim	13	"	"	17	1,400	1,570
	The Premier Electric Light, Heat and Power Co., Ltd., Wallaceburg.	14	"	"	31	1,645	1,955
	James A. Secord, Harrow.	15	"	"		700	700
	Wigle Bros., Windsor.	16	"	"		300	300
	The Corporation of the City of Windsor.	17	"	"	190		1,900
Ottawa.	Corporation of the City of Ottawa.	1	C. I. R., Ottawa.	1908-09.	809	52,716	60,806
	Ottawa Electric Co.	2	"	"	712	173,934	181,054
	Deschênes Electric Co., Ottawa	3	"	"	8	2,700	2,780
	Hull Electric Co., Hull and Aylmer.	4	"	"	63	9,216	9,846
	Albert MacLaren, Buckingham.	5	"	"	45	2,850	3,300
	Corporation of the town of Sudbury.	1	C. I. R., Perth	1908-09.	35	3,400	3,750
	Canadian Copper Co., Copper Cliff.	2	"	"	49	4,153	4,643
	Pembroke Electric Light Co., Ltd.	3	"	"	45	5,700	6,150
	Smith's Falls Electric Power Co., Ltd.	4	"	"	80	5,000	5,800
	John D. McRae, Eganville.	5	"	"		1,200	1,200
	The Dowd Milling Co., Pakenham	6	"	"		450	450
	Corporation of the town of Perth.	7	"	"	55		550
	Liskeard Light, Heat and Power Co., Ltd., New Liskeard.	8	"	"	22	1,850	2,070
	The Haileybury Electric Co.	9	"	"	18	1,900	2,080
	North Bay Light, Heat and Power Co.	10	"	"	33	4,000	4,330
	Corporation of the town of Almonte.	11	"	"	19	5,000	5,190
	The Arnprior Light and Power Co., Ltd.	12	"	"		3,800	3,800
	Mattawa Electric Light and Power Co., Ltd.	13	"	"	14	940	1,080
	Renfrew Electric Co., Ltd.	14	"	"		1,585	1,585
	Renfrew Power Co., Ltd.	15	"	"	54	3,000	3,540
Perth.	Canadian Electric and Water Power Co., Ltd., Perth	16	"	"		4,500	4,500
	Sturgeon Falls Electric Light and Power Co., Ltd.	17	"	"		2,000	2,060
	Carleton Place Electric Light Co.	18	"	"	10	2,700	2,800
	The Citizens' Electric Co., Ltd., Smith's Falls.	19	"	"		1,800	1,800

SESSIONAL PAPER No. 13

Toronto	Waterloo Electric Light and Power Co.	C. I. R., Guelph	1908	1908	1908
1	Chert Gas Light Co., Ltd.		28	3,800	4,080
2	E. W. R. Smith, St. Jacobs		19	8,043	8,833
3	Jacob Mouley, New Hamburg			300	300
4	Kergus Electric Light Plant		21	1,300	1,510
5	John Howes, Hanover		32	2,000	2,320
6	Ratz Bros., Elmira		20	800	1,000
7	Board of Light and Heat Commissioners, Guelph			700	700
8	Drayton Electric Light		111	11,494	12,604
9	The Corporation of Mount Forest			513	513
10	The Barham Light Commissioners		17	2,400	2,570
11	Corporation of the town of Hespeler		135	6,000	7,350
12	The Light and Water Commissioners, Preston			2,000	2,000
13	Wenger Mining Co., Ayrton		27	3,500	3,770
14	Corporation of the town of Danforth			150	150
15	The Georgian Bay Mining and Power Co., Ltd., Midland			500	500
16	H. Guggli & Son, Guelph		25	2,950	3,200
17	H. Guggli & Son, Hanover			600	600
18	Sable Falls Light and Power Co., Warton		17	1,800	1,970
19	Thomas Andrews, Thornbury		22	1,550	1,770
20	Walter Stewart & Son, Leithville		10	600	700
21	Midway Electric Light Co.		13	500	630
22	Chesley Electric Light Co.			300	300
23	Walkeston Electric Light & Power Co., Ltd.		9	1,300	1,550
24	The Niagara Electric Light and Power Co., Ltd.		15	1,730	1,910
25	Minns Bros., Markham			2,750	2,750
26	Corporation of the town of Chatham		43	1,200	1,200
27	Paschey Electric Light Co.			3,000	3,630
28	Georgian Bay Power Co., Ltd., Port Huron			900	900
29	Corporation of the town of Owen Sound			375	375
30	Craxford & McIntyre, Port Huron		81	14,274	15,084
31	Corporation of the town of Kincardine		6	1,500	1,560
32	Peewater Electric Light Co.		19	2,245	2,465
33	Pontiac Electric Light Co., Ltd.		8	400	480
34	Pontatzenberg and Millard Electric Street Light and Power Co., Ltd.		1,630	20,000	266,500
35	James Pickering, Shelburne		19	1,900	1,900
36	Corporation of the town of Huron		17	1,400	1,570
37	Alexander Robson, Beaverton		32	3,500	4,020
38	Aurora Electric Light Co.			800	800
39	Joseph Knob, Stuyart			550	550
40	Corporation of the Village of Kintou			800	800
41	Corporation of the Village of Ayrton			750	750
42	Hamilton Cataract Power, Light & Thermal Co., Ltd., Burlington			1,200	1,200
43	John Philip, Grand Valley and Ayrton		1	2,733	2,763
44	Georgetown Electric Light & Power Co., Ltd., Georgetown and Glen Williams			1,800	1,800
45	Corporation of the Town of Wario		13	1,800	1,950
46	The Knight Bros. Co., Ltd., Banks Falls		27	3,300	3,570
47	James Byer, Stouffville		2	1,500	1,520
48				710	710

APPENDIX J—Continued.
STATEMENT showing the Electric Light Companies registered under the Electric Inspection Act, during the Year ended March 31, 1909—Continued.

Districts.	Name of Company.	Serial No.	By whom Certificate issued.	Certificate for Fiscal Year.	NUMBER OF LAMPS.		
					Arc.	Incan- descent.	Totals.
Toronto	Corporation of Gravenhurst	16	C. I. R., Toronto	1908-09	.....	2,500	2,500
	Brampton Electric Light Co.	17	"	"	35	2,200	2,550
	Blind River Light, Heat & Power Co.	18	"	"	.....	2,000	2,000
	Little Current Lumber Co.	19	"	"	5	571	621
	The Monarch Supply Co., Ltd., Toronto.	20	"	"	29	500	700
	Sunderland Electric Power Co., Ltd.	21	"	"	.....	592	592
	Corporation of East Toronto.	22	"	"	34	500	834
	Corporation of Tottenham	23	"	"	.....	500	500
	Corporation of Milton	24	"	"	20	1,500	1,700
	Corporation of Bracebridge	25	"	"	13	3,500	3,630
	W. H. Summerfeldt & Son, Sutton	26	"	"	.....	420	420
	Corporation of Streetsville	27	"	"	.....	490	490
	C. W. Watson, Orangeville.	28	"	"	.....	1,600	1,600
	I. J. Gould, Uxbridge	29	"	"	12	1,170	1,290
	Cannington Electric Light Co.	30	"	"	12	350	470
	Corporation of the Village of Port Perry	31	"	"	2	650	670
	The Cataract Electric Light Co., Ltd., Orangeville.	32	"	"	29	600	890
	Corporation of the Village of Weston	33	"	"	22	800	1,020
	Alliston Electric Light Co.	34	"	"	.....	1,500	1,500
	Simon Plews, Creemore	35	"	"	.....	500	500
	J. C. McClelland & Co., Powassan	36	"	"	.....	400	400
	Corporation of the Town of Huntsville	37	"	"	4	2,700	2,740
	Corporation of the Town of Parry Sound	38	"	"	14	4,000	4,140
	Corporation of the Village of Markham.	39	"	"	.....	500	500
	Corporation of New Market	40	"	"	.....	3,000	3,000
	Corporation of the Town of Thessalon.	41	"	"	13	900	1,030
	The Stock Telephone, Light & Power System, West Toronto	42	"	"	183	14,000	15,830
	Corporation of the Town of Midland	43	"	"	25	4,500	4,750
	G. Copeland & Son, Elmville	44	"	"	20	600	800
	Togana Water & Light Co., Sault Ste. Marie	45	"	"	219	11,417	13,607
	Corporation of the Town of Orillia	46	"	"	50	8,007	8,507
	Oshawa Electric Light Co., Ltd.	47	"	"	20	3,000	3,200

Montreal.	Central Heat, Light & Power Co., Ltd., Montreal	1	C. I. R., Montreal	1908-09 ..	65	8,654	9,301
	St. Jerome Power & Electric Light Co., Ltd.	2	"	"	.....	1,000	1,000
	Bessboroughs Electric Light Co.	3	"	"	.....	1,500	1,500
	The Corporation of the Village of Huntingdon	4	"	"	.....	1,100	1,100
	Valleyfield Electric Co., Ltd.	5	"	"	.....	3,100	3,100
	John F. Avers, Inc.	6	"	"	.....	1,050	1,050
	Montreal Light, Heat & Power Co., Ltd.	7	"	"	3,961	422,213	491,923
	The Laurentian Water & Power Co., Ltd., 800 Avenue des Moulins	8	"	"	2	1,000	1,020
	La Compagnie d'Edouard de Tonnant	9	"	"	1	1,582	1,592
	Corporation of Westmont	10	"	"	160	21,000	22,600
	The Corporation of the Town of Lac Beauport	11	"	"	72	3,000	3,720
	The Saguenay Electric Light & Power Co., Montreal.	12	"	"	.....	1,950	1,950
	Joseph Cyr, St. Catharines	13	"	"	.....	140	140
Quebec.	The Quebec Jacques Cartier Electric Co.	1	C. I. R., Quebec	1908-09 ..	650	60,000	66,500
	La Compagnie Hydraulique & Electrique de L'Anse-au-Loup	2	"	"	.....	1,300	1,300
	L. P. H. & Henri Girardoux, St. Charles	3	"	"	.....	350	350
	Quebec Railway Light & Power Co.	4	"	"	227	67,954	70,224
	La Compagnie d'Electricite de Riverview	5	"	"	1	1,700	1,710
	La Compagnie Municipale d'Electricite de Riverview	6	"	"	.....	1,805	1,805
	Basin Electric Light & Power Co., Ltd., Montserrat	7	"	"	.....	1,800	1,800
	The Labrador Electric & Paper Co., Miramichi	8	"	"	.....	3,473	3,473
	Compagnie Electrique de la Riviere St. Paul	9	"	"	.....	1,000	1,000
	Charles A. Julien, St. Rose	10	"	"	.....	400	400
	Charles A. Julien, Port-Rouge	11	"	"	.....	320	320
	The Canadian Electric Light Co., Leves	12	"	"	33	14,334	14,664
	The Town of Plessville	13	"	"	38	9,000	9,380
	La Compagnie Electrique St. George, Riverview	14	"	"	.....	1,100	1,100
	La Compagnie Electrique de la Riviere St. Charles	15	"	"	.....	225	225
	La Compagnie des Electricite d'Electricite de Riverview	16	"	"	.....	5,000	5,000
Sherbrooke.	Richmond County Electric Co.	1	C. I. R., Sherbrooke	1908-09 ..	.....	2,650	2,650
	La Compagnie d'Electricite, Delson	2	"	"	.....	900	900
	J. B. Parker, Delson	3	"	"	.....	150	150
	The Corporation of the Town of Benoitville	4	"	"	.....	820	820
	Corporation of the Town of Chatham	5	"	"	25	4,000	4,250
	Great Northern Lumber Co., Ltd., St. Marys	6	"	"	.....	250	250
	The Standard Electric Light Co.	7	"	"	20	1,200	1,400
	Corporation of the Town of Magog	8	"	"	.....	3,500	3,500
	J. A. Gauthier, St. Marys	9	"	"	.....	300	300
	Eastern Township Electric Co. North Hallow	10	"	"	.....	1,900	1,900
	D. C. Hunter & Son, Westbury	11	"	"	.....	175	175
	Westbury Electric Light & Power Co., Riverview	12	"	"	.....	900	900
	R. H. & G. H. Gilson, Riverview	13	"	"	.....	900	900
	Sherbrooke Power, Light & Heat Co.	14	"	"	100	26,000	27,000
	The River Lake Electric Power Co., Westbury	15	"	"	.....	1,800	1,800
	The Corporation of the Village of Grafton	16	"	"	40	3,000	3,400
	The Corporation of the Town of Whitton Mills	17	"	"	.....	2,000	2,000
	La Compagnie d'Electricite de Riverview, Riverview	18	"	"	.....	1,000	1,000
	N. P. Langway, Weston	19	"	"	.....	100	100

APPENDIX J—Continued.
STATEMENT showing the Electric Light Companies registered under the Electric Light Inspection Act, during the Year ended March 31, 1909—Continued.

Districts.	Name of Company.	Serial No.	By whom Certificate issued.	Certificate for Fiscal year.	NUMBER OF LAMPS.		
					Arc.	Incan- descent.	Totals.
Sherbrooke	The Corporation of the village of Sutton	20	C. I. R., Sherbrooke	1908-09			*
	La Compagnie de Gaz, Electricité & Pouvoir de St. Hyacinthe	1	C. I. R., St. Hyacinthe	1908-09	49	12,000	12,400
	Deslandes & Chevreton, Acton Vale	2	"	"		350	350
	M. S. Connell & Sons, Stanbridge East	3	"	"		200	200
	The Arthabaska Water & Power Co., Victoriaville	4	"	"		5,000	5,000
	La Fonderie de Plessisville	5	"	"		2,800	2,800
	La Corporation de la ville de Drummondville	6	"	"		1,000	1,000
	G. Poulin, Farouham	7	"	"		1,500	1,500
	The St. John's Electric Light Co., Ltd.	8	"	"	16	5,000	5,160
	La Compagnie Electrique de Sorel	9	"	"	36	6,000	6,360
	Nelson Buzzell, Cowansville	10	"	"		450	450
Three Rivers	A. N. Dufresne, St. Cesaire	11	"	"		1,835	1,835
	La Corporation de la ville de Joliette	1	C. I. R. Joliette	1908-09	78	2,600	3,380
	Dion & Paradis, St. Roch de l'Achigan	2	"	"		1,350	1,350
	The Laval Electric Co., L'Assomption	3	"	"		1,000	1,000
	The Laval Electric Co., L'Assomption	4	"	"		1,000	1,000
	The St. Maurice Light & Power Co., Shawinigan Falls	1	C. I. R., Three Rivers	1908-09	10	3,500	3,600
	The North Shore Power Co., Three Rivers	2	"	"	125	7,000	8,250
	The St. John Railway Co.	1	C. I. R., St. John	1908-09	666	30,000	36,660
	The Sackville Electric Light & Telephone Co., Ltd	2	"	"	5	3,000	3,050
	A. & R. Loggie, Loggieville	3	"	"		375	375
	Town of Newcastle	4	"	"	26	2,800	3,060
St. John	The Kent Electric Co., Ltd., Richibucto	5	"	"		1,800	1,800
	The Corporation of Chatham	6	"	"	8	3,000	3,080
	The Sussex Manufacturing Co., Ltd.	7	"	"	3	1,300	1,330
	The St. Stephen Electric Light Co.	8	"	"	49	2,011	2,501
	The Bathurst Electric Water Power Co., Ltd.	9	"	"	4	2,000	2,040

* About to begin operations.

SESSIONAL PAPER No. 13

St. John.....	The Fredericton Gas Light Co.....	10	"	"	"	38	5,500	5,880
	The City of Moncton Water & Light Department.....	11	"	5	"	99	8,000	8,990
	The Corporation of Campbellton Electric Light Department.....	12	"	"	"	50	2,000	2,500
	The Woodstock Electric Railway Light & Power Co.....	13	"	"	"	51	2,000	2,510
	The King Lumber Co., Ltd., Chipman.....	14	"	"	"	1	200	210
	C. M. Sherwood, Centreville.....	15	"	"	"	5	380	430
	The Dorchester Electric Light and Power Co., Ltd.....	16	"	"	"	6	500	560
Halifax.....	Halifax Electric Tramway Co., Ltd.....	1	C. I. R., Halifax.....	1908-09	383	46,670	50,500	
	Town of Annapolis Royal Electric Light Works.....	2	"	"	.....	1,200	1,200
	Windsor Electric Light and Power Co., Ltd.....	3	"	"	4	3,000	3,040	
	Logan & Co., Electric Light Works, Shubenacadie.....	4	"	"	.....	340	340
	The Canada Electric Co., Ltd., Amherst.....	5	"	"	30	6,000	6,300	
	Acadia Electric Light Co., Wolfville.....	6	"	"	.....	1,900	1,900
	The Bridgetown Electric Light and Power Co., Ltd.....	7	"	"	.....	850	850
	Edison Electric Light and Power Co. of Spring Hill, Ltd.....	8	"	"	.....	1,900	1,900
	Kentville Electric Light and Power Co., Ltd.....	9	"	"	7	1,700	1,770	
	Town of Parrsboro Electric Light Works.....	10	"	"	.....	1,000	1,000
	The Milton Electric Light, Power and Manufacturing Co., Ltd.....	11	"	"	.....	457	457
	John Daley, Digby.....	12	"	"	.....	800	800
	Oxford Electric Co., Ltd.....	13	"	"	.....	490	490
	The Yarmouth Street Railway Co., Ltd.....	14	"	"	1	1,200	1,210	
	Board of Water Commissioners, Town of Mahone.....	15	"	"	.....	500	500
	Chambers' Electric Light and Power Co., Ltd., Truro.....	16	"	"	.....	8,000	8,000
	Dartmouth Gas Electric Light, Heating and Power Co., Ltd.....	17	"	"	.....	3,000	3,000
	Lunenburg Gas Co., Ltd.....	18	"	"	.....	2,200	2,200
	The Town of Bridgewater Electric Light Works.....	19	"	"	.....	2,300	2,300
	Bear River and Digby Electric Light, Heating and Power Co., Ltd.....	20	"	"	.....	485	485
	The Town of Liverpool Electric Light Works.....	21	"	"	25	1,950	2,200	
	Corporation of the Town of Pictou.....	1	C. I. R., Pictou.....	1908-09	35	3,500	3,850	
	Corporation of the Town of Glace Bay.....	2	"	"	6	9,000	9,060	
	Sydney Mines Electric Co.....	3	"	"	1	2,400	2,410	
	Cape Breton Electric Co., Ltd., Sydney.....	4	"	"	91	18,000	18,910	
	Cape Breton Electric Co., Ltd., North Sydney.....	5	"	"	28	3,619	3,899	
	Antigonish Electric Co.....	6	"	"	.....	1,200	1,200
	New Glasgow Electric Co., Ltd.....	7	"	"	48	10,000	10,480	
	Inverness Railway and Coal Co.....	8	"	"	8	675	755	
	The Port Hood Richmond Railway and Coal Co., Ltd.....	9	"	"	1	500	510	
	Acadia Coal Co., Ltd., Stellarton.....	10	"	"	13	641	771	
	Nova Scotia Steel and Coal Co., Ltd., Trenton.....	11	"	"	54	600	1,140	
	Sydney and Glace Bay Railway Co., Ltd.....	12	"	"	.....	60	60
Charlottetown..	Summerside Electric Co., Ltd.....	1	C. I. R., Charlottetown.....	1908-09	20	975	1,175	
	Montague Electric Co., Ltd.....	2	"	"	.....	450	450
	Charlottetown Light and Power Co., Ltd.....	3	"	"	115	10,000	11,150	
Winnipeg.....	The Kaministiquia Power Co., Fort William.....	1	C. I. R., Port Arthur.....	1908-09	.....	.....	*
	Corporation of the City of Port Arthur.....	2	"	"	27	14,112	14,382	

* For Power purposes only.

APPENDIX J—Concluded.

STATEMENT showing the Electric Light Companies registered under the Electric Light Inspection Act, during the Year ended March, 31, 1909—Concluded.

Districts.	Name of Company.	Serial No.	By whom Certificate issued.	Certificate for Fiscal Year.	NUMBER OF LAMPS.		
					Arc.	Incan- descent.	Totals.
Winnipeg	Corporation of the Town of Kenora.....	3	C. I. R., Port Arthur...	1908-09.....	90	7,000	7,900
	Rat Portage Lumber Co., Ltd., Rainy River.....	4	"	"	.....	300	300
	Rainy River Lumber Co., Ltd.....	5	"	"	23	291	521
	Corporation of the Town of Neepawa.....	1	C. I. R., Winnipeg.....	1908-09.....	19	2,660	2,850
	Corporation of the Town of Carberry.....	2	"	"	16	1,600	1,760
	The Central Electric Co., Ltd., Portage la Prairie.....	3	"	"	13	4,000	4,130
	The Brandon Electric Light Co., Ltd.....	4	"	"	100	15,000	16,000
	The Corporation of the town of Dauphin.....	5	"	"	20	3,500	3,700
	The Selkirk Electric Light & Power Co., Ltd	6	"	"	2	1,600	1,620
	Winnipeg Electric Railway.....	7	"	"	213	151,823	153,753
	Town of Morden.....	8	"	"	.....	1,200	1,200
Regina.....	Corporation of the Town of Carman.....	9	"	"	1	1,800	1,810
	The Turtle Mountain Milling Co., Boissevain.....	10	"	"	.....	750	750
	D. E. Craig, Minnedosa.....	11	"	"	5	2,000	2,050
	The Corporation of the City of Moose Jaw.....	1	C. I. R., Moose Jaw....	1908-09.....	41	7,000	7,410
	The Town of Battleford.....	2	"	"	21	600	810
	George Collison, Estevan	3	"	"	.....	780	780
	The City of Saskatoon.....	4	"	"	28	4,000	4,280
	Townsend & Hutt, Milestone.....	5	"	"	.....	280	280
	The City of Regina.....	6	"	"	61	20,058	20,668
	The City of Prince Albert.....	7	"	"	.....	4,200	4,200
	The town of Indian Head	8	"	"	36	3,500	3,860
Edmonton	The Moore Milling Co., Ltd., Qu'Appelle.....	9	"	"	7	800	870
	Weyburn Machine & Electric Light Co., Ltd.....	10	"	"	8	1,950	2,030
	City of Strathcona.....	1	C. I. R., Calgary.....	1908-09.....	46	6,000	6,460
	City of Edmonton	2	"	"	84	28,000	28,840
	The Western General Electric Co., Ltd., Red Deer.....	3	"	"	15	1,960	2,110
	Lethbridge Electric Co., Ltd.....	4	"	"	14	1,400	1,540
	Fort Electric Co., Ltd., Fort Saskatchewan	5	"	"	5	1,200	1,250
	Blindman River Electric Power Co., Ltd., Lacombe.....	6	"	"	15	850	1,000
	Calgary Water Power Co., Ltd.....	7	"	"	14	12,000	12,140

SESSIONAL PAPER No. 13

Vancouver	8	"	"	"	140	21,694	23,094
Corporation of the City of Calgary	9	"	"	"	17	1,500	1,670
City of Wetaskiwin	10	"	"	"	15	1,200	1,350
The Municipality of the Town of Macleod							
Corporation of the City of Revelstoke	1	C. I. R., Vancouver.	1908-09		5	2,000	2,050
Corporation of the City of Vernon	2	"	"	"		1,900	1,900
Armstrong Light & Power Co., Ltd	3	"	"	"	1	750	760
The Crow's Nest Pass Electric Light & Power Co., Ltd. Fernie	4	"	"	"	1	3,449	3,459
The Crows' Nest Pass Electric Light & Power Co., Ltd., Michel	5	"	"	"		1,100	1,100
The Cranbrook Electric Light Co., Ltd	6	"	"	"	2	2,200	2,220
Corporation of the City of New Westminster	7	"	"	"	135	14,000	15,350
The Consolidated Mining & Smelting Co., Ltd., Trail	8	"	"	"	12	1,025	1,145
Kootenay Electric Co., Ltd., Kaslo	9	"	"	"		750	750
City of Kamloops	10	"	"	"		4,500	4,500
Corporation of the City of Nelson	11	"	"	"	3	6,600	6,630
British Columbia Electric Railway Co., Ltd., Ladner	12	"	"	"		1,365	1,365
British Columbia Electric Railway Co., Ltd., Steveston	13	"	"	"		1,478	1,478
British Columbia Electric Railway Co., Ltd., North Vancouver	14	"	"	"	41	3,449	3,859
British Columbia Electric Railway Co., Ltd., Vancouver	15	"	"	"	997	192,130	202,100
The Cascade Water Power & Light Co., Ltd	16	"	"	"			*
The West Kootenay Power & Light Co., Ltd., Rossland	17	"	"	"	38	5,000	5,380
Sandon Water Works & Light Co.	18	"	"	"	2	428	448
The Daly Reduction Co., Ltd., Hedley	19	"	"	"		275	275
Greenwood City Waterworks Co.	20	"	"	"	7	2,000	2,070
The Ashcroft Water, Electric & Improvement Co	21	"	"	"		500	500
Corporation of the City of Grand Forks	22	"	"	"	13	1,800	1,930
Corporation of the City of Kelowna	23	"	"	"	21	1,500	1,710
Summerland Development Co., Ltd	24	"	"	"		625	625
Victoria							
Cumberland Electric Light Co. Ltd	1	C. I. R., Victoria	1908-09			1,670	1,670
Nanaimo Electric Light Co.	2	"	"	"	57	4,100	4,670
British Columbia Electric Railway, Co., Ltd., Victoria	3	"	"	"	85	69,886	70,736
Victoria Electric Co.	4	"	"	"		304	304
Dawson							
Dawson Electric Light & Power, Co., Ltd	1	C. I. R., Dawson	1908-09			5,000	5,000

* Plant not in operation at the present time.

INLAND REVENUE DEPARTMENT,
OTTAWA, JUNE 18, 1909.

W. J. GERALD,
Deputy Minister.

APPENDIX K.

STATEMENT showing amount of Electrical Energy, generated for export and for consumption in Canada, under the authority of the Electricity and Fluid Exportation Act, for the fiscal year ended March 31, 1909.

Name of Contractor.	Place of Business.	Units Generated for Export.	Units Generated for Consump- tion in Canada.	Total Output of Generating Station or other source.	License Fees.
		Kw. hours.	Kw. hours.	Kw. hours.	
Canadian Niagara Power Co.	Niagara Falls, Ont.	221,927,240	5,405,760	227,333,000	50 00
Electrical Development Co. of Ontario, Ltd....	"	4,680,500	85,515,400	90,195,900	50 00
Maine & New Brunswick Electrical Power Co., Ltd.	Aroostook Falls, N.B.	841,764	3,940	845,704	25 00
Ontario Power Co. of Niagara Falls.....	Niagara Falls, Ont.	131,833,782	44,150,580	175,984,362	50 00
	Total	359,283,286	135,075,680	494,358,966	175 00

W. J. GERALD,
Deputy Minister.

INLAND REVENUE DEPARTMENT,
OTTAWA, June 18, 1909.

APPENDIX L.

STATEMENT showing amount of Natural Gas, produced for export and for consumption in Canada, under the authority of the Electricity and Fluid Exportation Act, for the fiscal year ended March 31, 1909.

Name of Contractor.	Place of Business.	Units Generated for Export.	Units Generated for Consump- tion in Canada.	Total Output of Generating Station or other source.	License Fees
		Cub. ft.	Cub. ft.	Cub. ft.	
The Provincial Natural Gas & Fuel Company of Ontario, Limited.	Bridgebnrg, Ont..	387,019,000	462,707,000	849,726,000	50 00

W. J. GERALD,
Deputy Minister.

INLAND REVENUE DEPARTMENT,
OTTAWA, June 18, 1909.